

Corporation hears students

Students and faculty members joined members of the Corporation last Friday for its luncheon meeting in the Faculty Club. Bill Brody, '65, Steve Lipner, '65, and Bill Samuels '65 spoke to the assemblage about various aspects of student life. At the close of the meeting portraits of President Julius A. Stratton and Chairman James R. Killian, Jr., were presented to them by the Corporation.



Bill Brody '65 (at podium) addresses members of the Corporation and Inscomm at luncheon last Friday. Seated (l. to r. with faces visible) are Dean Wiesner, Dr. Bush, Dr. Killian, President Stratton, Jay Groves '65, Mr. Cox, Dr. Townes and Richard Lucy '66.

Project MAC extended

Time-sharing reaches Argentina

By John Corwin
Civil engineering in Latin America moved one step closer last month to solving a long standing problem in computer technology, the scarcity of large-scale computer facilities.

Time-sharing, a method of programming a computer so that it can be used by many individuals simultaneously, went intercontinental as commercial radio teletypes linked MIT to the University of Buenos Aires in Argentina, Feb. 2.

The centrally located IBM 7094 at MIT is a facility operated under the Institute's Project MAC (Multiple Access Computer), supported by an agency of the U.S. Department of Defense. The concept of time-sharing has been engineered on the idea that the 7094 is so much faster in processing input than any one person can be in providing it, that it can receive greater quantities of input (increasing its efficiency and usefulness) by serving many operators in rapid alternation. The 7094 is fast enough so that each person using it can do so as if he were the only one operating it.

Radio link employed
The experiment was carried out in the early evening by civil engineers from both universities. They used commercial teletype facilities from Buenos Aires to the Radio Corporation of America (RCA) Communications, Inc., in New York City. There, the channel was patched into Western Union's commercial Telex system to put the researchers in Buenos Aires into direct contact with the MIT 7094.

The experiment was the first long range contact in which a radio link was used. Previous connections have been made to Scotland and Norway through commercial wire and cable systems. The contact with Argentina demonstrated the feasibility of long distance computer time-sharing, a main objective of Project MAC.

Professors involved
Conducting the experiment from Buenos Aires were Professors Robert Logcher, Frederick McGarry, Russel Jones, Paul Roberts and E. F. Bisbee, all of the MIT Department of Civil Engineering, and Professor Horacio Ruggini of the Department of Stability, School of Engineering, University of Buenos Aires.

MIT's Department of Civil En-

gineering, headed by Professor Charles Miller, has been engaged in an Inter-American program since 1961 under support provided by the Agency for International Development and Carnegie Corporation. Under the program, MIT civil engineering professors undertake joint research with colleagues in universities in Central and South America.

Mutual visits helpful
MIT professors visit Latin America to make contact with professors there and bring them up to date on recent research advances. In addition, professors and students from Latin American schools are brought to Cambridge to study and work in the department at MIT.

New Hampshire link
Last week, the IBM 7094 was linked to Concord, New Hampshire, by land lines to demonstrate to lawmakers there the functionality of centralized computer operations. The demonstration was part of a seminar conducted by the Highway Department.

Activities Council accepts two permanent members

Two clubs were accepted as permanent members of the Association of Student Activities (ASA) and a revised set of Activities Council by-laws accepted at an Activities Council meeting last Wednesday.

Also discussed were the William L. Stewart, Jr. Awards for outstanding contributions by activities, activity leaders, and activity members. Nominations for these awards may be made by any member of the MIT community and must be turned in at the Institute Committee office 50-110 by March 15.

The two clubs which successfully completed their year of provisional membership and which were approved for permanent ASA membership were the Social Service Committee and the Socialist Club.

The proposed set of revisions to the Activities Council by-laws

discussed some of the problems this new group has had, and the progress it has made with its tutorial program. Bill Samuels, UAP, then gave a brief outline of student government at MIT.

Dr. Varnevar Bush, Honorary Chairman of the Corporation, made the presentation of the portraits to Dr. Killian and President Stratton in recognition of their leadership during MIT's most extensive period of development. Dr. Bush said the Institute is now "the most highly respected institution of its kind in the world," and noted the further goals of its second century.

Corporation members Cecil H. Green, '23, and David Shepard, '26, classmates of Dr. Stratton and Killian, unveiled the portraits. Dr. Stratton's portrait was the work of Gardner Cox, '32, who has painted John F. Kennedy and Felix Frankfurter. Dr. Killian's portrait was done by Thomas E. Stevens, whose other subjects include President Eisenhower and Alfred P. Sloan, Jr.

Dorms elect 1965-66 officers; five acquire positions on Inscomm

Fifteen new dorm officers for 1965-66 were elected last week.

Baker House elected four officers. They are Carl Jones '66, president; Richard Dillon '67, vice president; Steve Goodfellow '67, treasurer; and Dave Lapin '67, secretary.

Scott Keneman '66, Bill Hsu, '67, and Bob Sullivan '67 were chosen as the president, vice president and secretary respectively of Burton House.

East Campus selected Paavo Pyykkonen '67 as its president, Matt Degnan '66 as its treasurer, and Chuck Breckheimer '66 as its secretary.

McCormick Hall's excomm consists of its officers Diane Macunovich '66 president; Edie Goldenberg '67, vice president and Lynn Wiesenberger '68 secretary.

Senior House selected Ken Ault

Two MIT students hurt in motorcycle accident

Grad student David Edwards and Sang Lee '67 were injured Saturday, March 6, when their motorcycle collided with an automobile at the corner of Massachusetts Avenue and Beacon Street, in Boston. The accident occurred shortly before midnight.

Lee is in Beth Israel Hospital, where he was admitted early Sunday morning. His condition was described Monday night as "comfortable." Edwards, at Boston City Hospital, was labeled in "fair" condition at that time and improving, although still on the "danger list." He had been described as being in "poor condition" when he was first admitted.

Activities Council accepts two permanent members

prepared by Council President Rusty Epps was basically accepted as presented except for the section concerning the structure of the council. The proposal for a ten-man council made up of three officers elected by the entire ASA and seven members-at-large elected by the old council plus the new officers was soundly defeated in favor of a structure similar to the present one. The council-approved structure calls for a twenty-man council composed of thirteen permanent members and seven rotating members. The council officers would then be elected by this group. The permanent members of the council are essentially those who are presently permanent members with the exception of the Athletic Association and Finance Board.

This set of by-law revisions is, of course, subject to review by Inscomm.

Nominations open

Baker award pending

Nominations are now being accepted for the third annual Baker Award for Outstanding Undergraduate Teaching. The purpose of the award, made in the name of the late Dean of Students Everett Moore Baker, is to recognize and encourage exceptional interest and ability in the instruction of undergraduates.

The award, provided by the Everett Moore Baker Foundation, is given to young faculty members, below the rank of full professor, who have demonstrated that they are truly interested in undergraduates, both in and out of the classroom.

Nominations for this award may be made by any undergraduate. They should be submitted in writing by March 26 to the committee chairman, Kenneth Ault, Senior House, 4 Ames St., Cambridge, Mass. 02139.

The committee is interested in hearing from individuals who feel

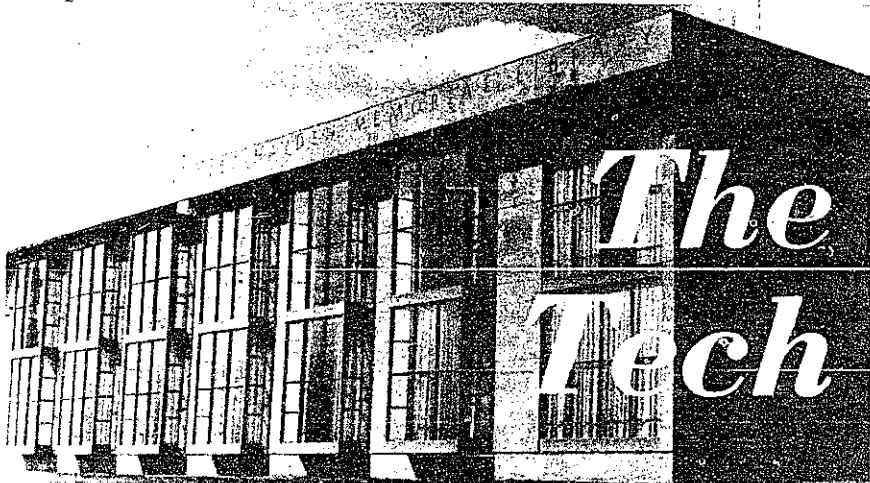
that they have encountered an outstanding teacher. Nominations do not have to be petitions, according to the committee.

The award consists of a \$250 honorarium and a bronze medal, which will be presented at the Awards Convocation May 10. Previous recipients of the Baker Award are Prof. Alan J. Lazarus and Prof. Amar G. Bose.

The Baker Foundation was established in 1951 to perpetuate the memory and extend the ideals of Dean Baker, who was Dean of Students from January 1947 until his death in an airplane accident in August 1950. As Dean of Students, Dr. Baker was noted as a strong proponent of student freedom and worked constantly to establish a congenial atmosphere for student life. One of his major interests was promoting international relations among students.

The foundation's projects are implemented by a student committee with the assistance of a faculty advisory board. The committee uses the interest income of the foundation on such projects as the Baker Award, assistance to students interested in service in foreign countries, and otherwise honoring the memory of Dean Baker.

According to the committee, ideas for potential projects which would fulfill the purposes of the foundation are invited and encouraged. The current Baker Committee members are Kenneth Ault '66, Robert Kimmel '64, Howard Brauer '65, James Funderburg '66 and John Adger '66.



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Dr. Lax, of Magnet Laboratory, appointed professor of physics

By Scott Moffatt
Dr. Benjamin Lax, renowned authority in the field of solid state physics, has been appointed Professor of Physics at MIT. The appointment was announced on Monday by Dean Jerome Wiesner of the MIT School of Science.

Dr. Lax will continue to serve in his capacity as the director of the MIT National Magnet Laboratory in Cambridge but will relinquish his position as associate director of the MIT Lincoln Laboratory at Lexington.

Professor Lax has to his credit a long list of varied accomplishments. Born in Hungary in 1915, he came to the United States with his family in 1926, where he settled in New York City. After graduating from the Brooklyn

Boys High School, he attended Brooklyn College for one year majoring in mathematics. At this time he placed first among 800 other youths in competitive examinations for admission to The Cooper Union in New York City and received a four year Schweinburg Scholarship. In 1941 he received a bachelor's degree in mechanical engineering.

During the war Dr. Lax was sent to Cambridge to study and work on radar at Harvard and at the MIT Radiation Laboratory. He received his Ph.D. in physics from MIT in 1949, doing his doctoral research on microwave gas discharges.

From 1950 on Professor Lax served in various capacities at the MIT Lincoln Laboratory. While there he directed the development of the solid state maser used in the detection of radar signals bounced off the surface of Venus.

Following this work Dr. Lax headed the group of MIT scientists who planned and built the National Magnet Laboratory, which recently succeeded in generating the strongest magnetic field yet made by man.

Professor Lax is also a Fellow of the American Physical Society, a member of the Solid State Science Panel for the National Academy of Sciences, a Fellow of the American Academy of Arts and Sciences and a member of the Joint Council on Quantum Electronics.

Plasma measuring topic of today's talk by Prof. Lazarus

MIT Professor Alan J. Lazarus will speak on measurements of plasmas in space at 5:00 this afternoon in Room 4-270.

The talk is part of a series of informal lectures sponsored by the MIT Student Chapter of the American Institute of Physics. Anyone who might wish to join the chapter is encouraged to come, as well as anyone who is interested in the specific topic. A discussion period will follow the presentation, and refreshments will be served.

Building E18-E19

MIT offices in Daggett

The newly-renovated Daggett Building located at 50 Ames Street has become the permanent location of a number of MIT offices. The Daggett Building itself has been redesignated E18 and E19.

Those offices listed below have completed their moves to the new facility and may be located in the offices indicated. Institute extension phone numbers have remained unchanged in most cases.

Accounting Office
Comptroller's E19-573
Alumni Assoc. MIT
Alumni Records E19-437
Headquarters E19-489
MIT Fund E19-439
Technology Review E19-430

Alumni Placement Office E19-455
Animal Pathology Lab E18-613
Audit Division, MIT E19-655

Budget Office, Comptroller's E19-672

Clinical Research Center, MIT E18-471

Comptroller's Accounting Offices:
Associate Comptroller E19-665
Accounting Office E19-537
Budget Office E19-627
Data Processing Office E19-689
Payroll Office E19-515
Pensions Office E19-623

Credit Union E19-601

Division of Sponsored Research (DSR) E19-702

Employment Office, Personnel E19-239

Food Toxicology Lab E19-666

Graphic Arts Service E19-220

Office of Institutional Studies E19-324

Kendall Company E18 5th floor

MIT Press E19-741

Office of Naval Research E19-628

Navy Audit Office E19-505
Patent Administration E19-619

Personnel, Office of
Employment Office E19-239
Student Employment E19-238
Benefits and Training E19-230

Physical Plant:
Director's Office E18-260
Superintendent's Office E18-210
Design Section E18-207
Safety Office E19-251

Placement Bureau:
Alumni Placement E19-455
Student Placement E19-455

Registrar's Office E19-335
Summer Session E19-455

Officers of Association for Women Students selected for next year

The Association of Women Students elected its new officers for 1965-66 March 2nd.

The results of these elections were: Eileen Tate '67, president; Elaine Ackles '67, vice president; Shirley Jackson '68, treasurer; and Barbara Desmond '67, secretary.

Bull Moose Club to add chapters

Officials of the National Bull Moose Federation, attending the Young Republican Leadership Training School in Washington, D.C. last week announced that twelve new clubs will soon join their organization.

The Federation is modeled after the Bull Moose Party established by Theodore Roosevelt in the 1912 campaign for the United States presidency. Founded at MIT in October, the Federation aims to "rebuild the Republican Party along more liberal lines."

Ralph Kopperman, the national coordinator, has said, "Our objective is not to split the Republican party, but rather to bring out its progressive best. In addition to progressive Republicans," he continued, "there is room for independents and even for Democrats who agree with our basic purpose." Bull Moosers "cannot condone the sacrifice of human dignity to prejudice that wears the mask of individualism."

Other members of the Bull Moose National Committee are Irving Thomas, president of the MIT Club, John McLennan from BU, and Don Weldon and Edwin Kampmann from MIT.

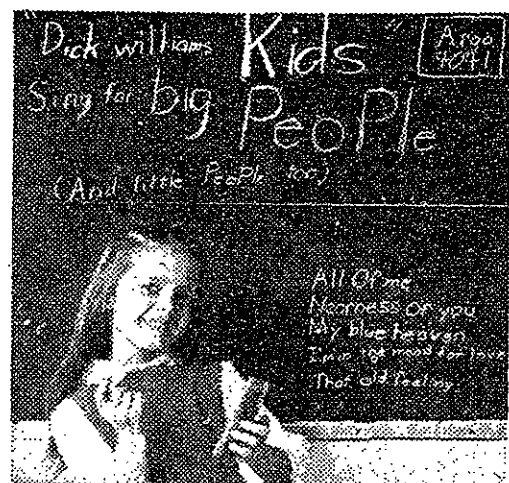
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Zvilna exhibit displayed in Lobby

"Painters must come out of the manuscript stage and paint for reproduction. A painting meant for reproduction is no more demeaned by reproduction than is a poem by reprinting."

These words of Margaret Mead were used by Canadian architect Jakabs Zvilna to describe the large photographic enlargements of his carbon-oil patterns now on exhibit in the Lobby of MIT's main entrance at 77 Mass. Ave. Mr. Zvilna has employed natural forces, such as gravity, surface tension and compression, to

achieve images in carbon which "evoke the internal order and rhythm of nature." He coats small sheets of glass (2 by 3 inches) with carbon black, and then flows solvents over the glass. The evaporation of the solvent produces surface tensions which crack the carbon and make rich patterns. He may also cover the coated glass with another sheet and circulate a solvent or oil between them.

By changing the orientation of the glass sheets, he can change the way in which gravity acts upon the carbon-oil medium and so affect the resultant image. Rotation, for example, sometimes produces a spiral pattern which resembles a galaxy, or a cross section of a chambered nautilus, but which is man-made.

Lincoln Lab's experimental satellite, LES-1, working

Lincoln Lab's experimental satellite LES-1, that had been reported in the February 17 issue of The Tech as having missed its planned orbit is otherwise working satisfactorily according to a U.S. Air Force report.

Separation of the LES-1 from the Titan inert flight test payload was achieved. This was confirmed by the Lincoln Laboratory Millstone Hill Radar Facility. However, a faulty ordnance circuit prevented the subsequent firing of the LES-1 injection rocket, forcing the satellite to continue in a 1500-nautical-mile circular orbit with the rocket attached.

The spin-up to of the LES-1 to 180 rpm was accomplished. Yet as stated in the Air Force release, "Calculations predict gradual conversion from spinning about long axis to tumbling end over end. Progress and completion of spin-axis conversion has been confirmed by periodic fluctuations observed in X-band signals at a rate of about one cycle per second, and by periodic electrical power supply voltage variations at the same rate, caused by periodic shadowing of solar cell panels by the rocket assembly."

The all-solid-state X-band satellite transponder and the earth sensing and antenna-switching system—two of the principal experiments—fulfilled expectations. High quality FM voice transmissions were produced via the satellite transponder.

Among the high frequency X-band experiments that will be attempted are auto-tracking, phase-locking and satellite circuit performance evaluation. Also, effects on the electronic circuits of voltage variations and radiation in the present orbit will be analyzed.

EE project display due for open house

Plans are being made for a student project display room as part of the electrical engineering department's Open House presentation.

Twenty-five dollars will be awarded to the most interesting and best presented displays. All course VI majors who would like to exhibit a personal or group project should submit a short explanation to Eta Kappa Nu and the course VI Student Faculty Committee before March 25. All satisfactory displays will be exhibited at Open House, April 10, at which time the prizes will be awarded.

Dean Hubbard, 267-6689, may be contacted for additional details.

KS Speakeasy brings 20's back to life again

Kappa Sigma will hold its 18th annual Speak Easy Saturday night, March 20.

Following tradition, the whole campus is invited and plenty of food and live music with free juice and games will be provided.

The party will be patterned after the clubs of Al Capone and his gangsters during the 20's. The brothers of Kappa Sigma will be dressed as hoodlums, but guests do not have to wear costumes. Also, don't be surprised if you see a little man carrying a violin case around campus.

The party begins at 8 p.m. and will last until midnight, so all people who are planning to attend All Tech Sing can drop in afterwards. Just knock twice and ask for Al.

Techtonians compete in college jazz festival

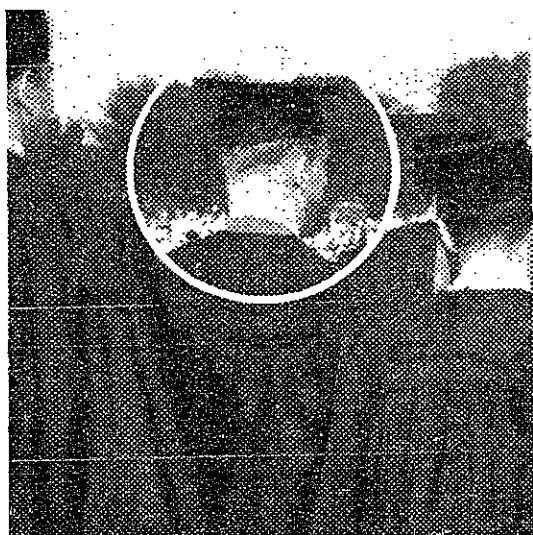
The Tectonians, MIT's 18 piece concert jazz band, have been accepted for competition in the semi-final round of the Villanova Intercollegiate Jazz Festival.

Mr. Herb Pomeroy, the director of the band describes the band's chances as "good" in spite of the fact that many schools with music "majors" will be represented. Admission to this festival is by competitive audition.

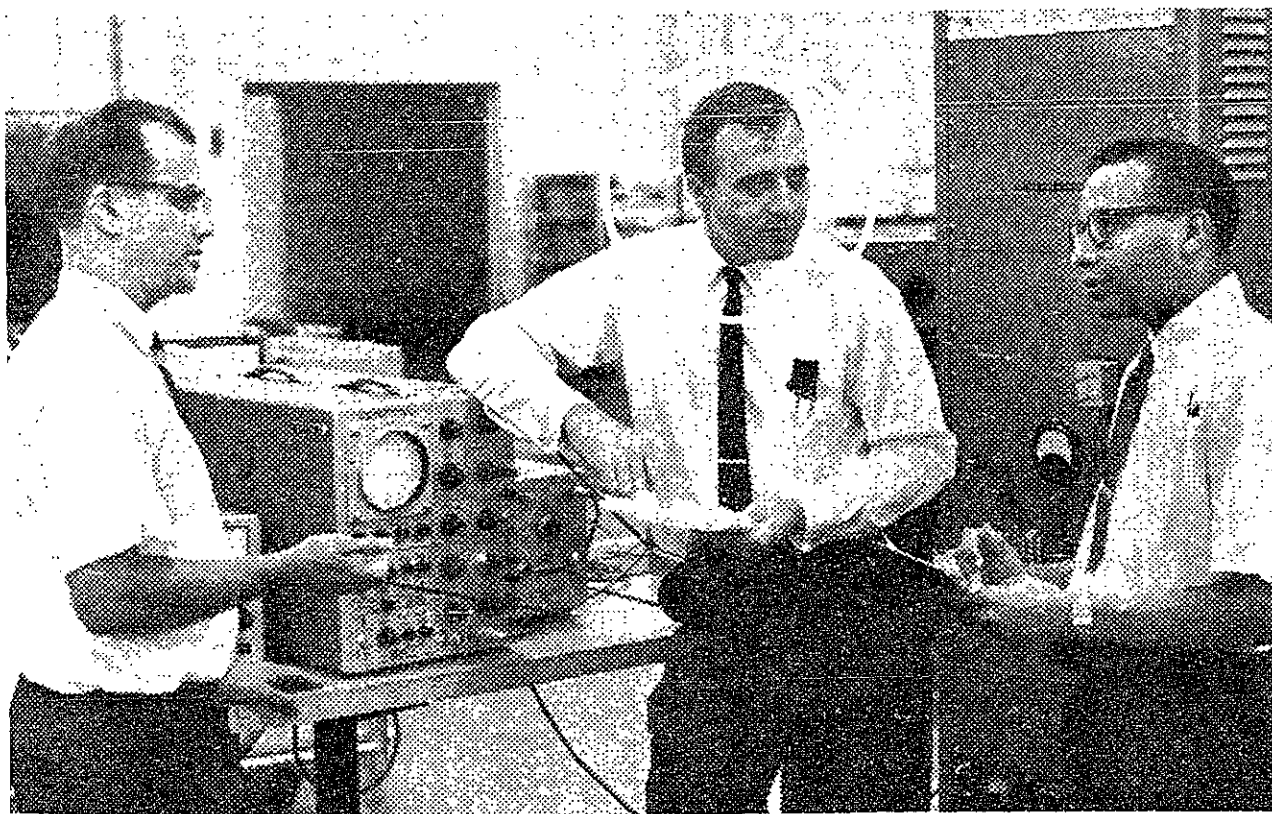
The festival, which is the finest at the college level, will be held on March 19 and 20 at Villanova University in Philadelphia. The finals will be carried by the ABC Radio Network.

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THE TECH COOP

Protests and politicians

Elsewhere in this issue (see Letters), we have discussed the question of apathy; but apathy is not the problem on this campus. The problem is frustration.

The protests raised in the recent campaigns could not have been the result of apathy; apathy does not engender such support. Rather it was the outcry of students who are interested but find themselves ineffectual or ignored. Part of their complaint is totally unrealistic; but part of it is unfortunately valid.

Student government, like any extra-curricular, requires talents not covered in the MIT admissions program. Desire alone is not enough to make a solo violinist, or an editor, or a UAP. Ideally, only the best men would handle the top jobs. It is an added frustration to some that this ideal is not always attained.

The "student politician" does exist on campus, in fortunately small numbers. Sometimes he relies on an ability to talk fast; sometimes he rides the coattails of a fraternity brother. His chief talent is his facility at playing the role to its limit. His prime interest is in being someone, not in doing something. Sometimes his own self-confident ego is enough to convince the voters, too.

This type does not represent student government; his counterpart is found in every activity, and he is uncommon in his pure form. But the merest hint of his presence can taint the air for some righteously critics.

This school is made up of real people, like other colleges are; we're not all saints, or all sinners. We trust the new officers have the ability to appoint men for their ability to work, not for their ability to be "cool." We also trust that the student who feels he has something to contribute will offer it; and that those

who apply will objectively compare their talents with their competitors.'

If the protest campaigners acted in sensible good faith, let them show it now. All the committees need able members; good sense, knowledge, and enthusiasm will not be turned away. The "glory" of the highest positions may not be a factor; but the real advantages of student government, the experience and the initiative and the cooperation, are all very much there. Keep an eye out for the committee openings. They're worth the work.

Frosh mid-terms

Already we have heard some criticism of the new freshman quiz system introduced by Undergraduate Planning Professor George E. Valley, Jr. The new plan, admittedly rather quickly constructed, consists of one round of hour quizzes in physics, calculus, and chemistry, then two-hour mid-terms, and finally another round of hour quizzes.

Complaints have centered around the two-hour tests; some are afraid that this is an excessive burden on the freshmen. But since the three tests will be given on Thursday and Friday, with Wednesday off for studying, there should be no problem.

The spirit of the complaint, however, is bothersome. There is implication that the new system will hurt the freshmen's cums, and that the Institute is therefore "screwing" them. Such an attitude is an insult to the judgment and the concern of the action's proponents.

The main objective of the Institute is to teach the material. Many felt that the alternating one-hour quizzes were actually a detriment to efficient learning; studies made of the quiz cycle and its effect on individuals tended to confirm this. The new system is an experiment to see whether a comprehensive mid-term test will motivate the student toward a more continuous method of study and a more efficient method of learning than Thursday night cramming.

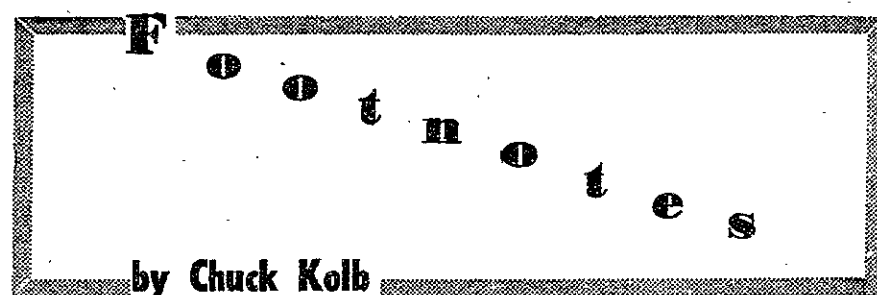
If the student takes care of his good scholarship habits, cum will, as usual, take care of itself. Of course, anyone who found the one-night cram sufficient to pass a test may have to change his habits, and this may be annoying; however, we cannot feel too sympathetic. The results of the program remain to be seen; frankly, anything is bound to be better than the quiz cycle.

Stewart Awards

This Monday is the deadline for nominations for the Stewart Awards honoring outstanding contributions to student activities. Last year these awards were established to pay tribute to the often unrecognized work done by groups, leaders of organizations, or individual members.

The Stewart Awards have filled a real gap; for some time there had been no extensive public recognition for a large number of hard-working students whose achievements were enjoyed by the whole community. Excellence in these fields should now receive the credit given top athletic prowess or officers of student government.

Thus far not many nominations have been filed; certainly there is no lack of qualified candidates. Anybody can make a nomination; we hope that all those who have respect for the accomplishments of a friend will pay him the compliment of offering his name.



by Chuck Kolb

12. Since the national magazines have carried stories naming MIT the nation's most favored college, they seem to take great delight in pointing out our flaws. One recent example was Life's comment on our suicide rate in an article on student reaction to college pressure.

A more recent and less informed article leads the Space and Science section in last week's Newsweek. The article deals with the new outdoor wind tunnel, which is also known as the Green Earth Sciences Building. Newsweek describes with great glee and detail the shortcomings of the building, but wrongly attributes the problem to southwinds, off the Charles, rather than northwinds, out of the Cambridge slums.

13. Undaunted by the problems encountered with the Green Building, the Institute will soon begin more construction. It looks like work should begin this term on Space Sciences Center, planned to fit in beside the Metals Processing Building and in back of Building 31.

It also looks possible that work will start in the not far future on the new Chemistry Building. This one is planned to run parallel to Building 6, between the main Institute buildings and the Earth Sciences Building. Core boring rigs were

taking foundation samples in this area before intercession. Pile drivers anyone?

14. Another 'new' building, at least to students, is the recently renovated Daggett Building, which has been rechristened E18 and E19. Since a large number of non-academic but nevertheless extremely useful services have been moved to this far east location, we've published a list of the building's occupants this week.

We hope those of you looking for the Registrar's office or the Placement Bureau will have a fighting chance, armed with this list. Incidentally, it is not true that plans are being made to move all the rest rooms in the main Institute to the Daggett Building.

15. Bill Huntington expresses his thanks.

16. One MIT custom we didn't know about until reading Caltech's student newspaper is the biennial MIT-Caltech Conferences. It seems that every two years representatives of the two super 'trade schools' meet together to discuss common problems of curricula, financing, faculty, students, and governmental relations. Two weeks ago President Stratton and six other faculty members spent three days in Pasadena discussing problems which had arisen since the previous conference at MIT two years ago.



Vol. LXXXV No. 5 March 10, 1965

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Entertainment Staff	Richard C. Art Jr. '66
Mona Dickson '66	Sherry Gulman '68
Andy Seidenfeld '68	Lawrence Stark '68
Photography Staff	Sanford Libman '65
Thomas Ostrand '65	Joseph Baron '66
Isaac Bornstein '68	Philip Dowds '66
Saul Mocallem '68	Norman Neff '66
William Park '68	Paul Stamm '67
William Bloomquist '67	James DeRemer '67
Steven Rife '67	John Rylaarsdam '67
James Cornell '68	Leonard Fehskens '68
William Ingram '68	Arthur Kalotkin '68
Robert Kendrick '68	Scott Mermel '68
James Robertson '68	Steven Silverstein '68

Staff Candidates	Harold Iuzzolino '65
John Kassakian '65	Norm Wagoner '65
Robert Taylor '66	Lewis Golovin '67
Ted Nygreen '67	Bob Pinti '68
Mike Telson '67	Alan Bernstein '68
John Blankinship '68	James Carle '68
Dave Chanoux '68	Sam Cohen '68
John Corwin '68	Eric Goldner '68
Mark Green '68	Pat Hynes '68
David Hill '68	James Leass '68
Jonathan Lehr '68	William Mack Jr. '68
Ren Marlin '68	James Marshall '68
Barry Mitnick '68	Brian Molloy '68
Alfred Olson '66	Tom Neal '68
Tom Rozsa '68	Richard Isaac '68
Philip Ryals '68	Mark Silvert '68
Alfred Singer '68	Alan Cohen '68

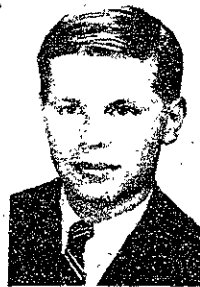
Inside Inscomm

Activities Council, Inscomm committee elections coming

By Bill Byrn, UAP

The voting membership of the new Institute Committee is almost completely chosen — only the Activities Council chairman remains to be elected. Bill Samuels has let me take over his column this week so that I can advertise the upcoming elections and committee selections.

During the next month almost every Inscomm committee will be seeking new members. (The exceptions are Spring Weekend Committee and Conference Committee.) Chairmen for all permanent subcommittees and administrative committees will be elected by the new Institute Committee — before vacation. In addition,



Secretariat will be seeking new freshmen; junior and senior members for Finance Board and Student Center Committee will be interviewed and elected.

An enumeration of the positions available and the responsibilities of the offices can be found in the Public Relations Committee annual report, pages 9-12.

The formal Institute Committee changeover will most probably be held a week before spring vacation. At this meeting the new Institute Committee will elect the Finance Board chairman, the Secretariat chairman, and the Student Center Committee chairman. All candidates for these offices should sign the nominations list in the Inscomm office, 50-110.

To all who feel an interest in making a contribution to student

(Please turn to page 8)



Military Ball held Saturday



Photo by William Bloomquist
Kathie Flanigan smiles broadly after being crowned Queen of the 1965 MIT Military Ball. Her date is George Kinal of Army ROTC. In back of them are, from left, Dean Fassett; Capt. Pugh, PNS; Lt. Col. Gilland, PMS; Major Alexander, PAS; MIT Vice President McCormack; and Prof. D. C. White, Housemaster at Burton, where Ball was held March 6.

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Letters to The Tech

PSYCHOLOGICAL ERROR

To the Editor:

Would it be too ungracious if I were to ask for a brief correction in your report of the speech I gave at annual Tech banquet on February 28 at Endicott House? It was a magnificent banquet and full of cheer, but somehow there must have been considerable noise in the channel between your guest speaker and his audience. I suspect, of course, that most of the noise was in the transmitter and not in the receivers, but I am quite sure I did not intend to convey the description of the psychology program attributed to me on p. 3, column 3, of the Tech of March 3, 1965.

I read there that I described the three "prongs" of the program as "human learning, neurological effects, and clinical testing." The description I gave there and elsewhere is rather different. It entails: (a) physiological psychology (studies of brain and behavior); (b) general experimental psychology studies of perception and learning; and (c) social and development psychology (including studies on the early acquisition of language, logic and social values).

To the uninitiated, the correction may amount to little, but for psychologists questions of how to define their field loom large. Besides, your description has caused an upsurge of telephone requests for clinical testing service from our department — still another indication of the power of the press!

But again, these three "prongs" aside, it was a lovely evening; many, many thanks for the invitation.

Hans-Lukas Teuber
Chairman,
Department of Psychology

Apathy or spirit?

To the Editor:

The UAP candidates have now finished running through the traditional list of irrelevancies which they will vaguely either fight for or fight against or encourage or devote all their energies or What-not, and the one that has never

failed to come up is the question of the "apathy" of the MIT student body toward Student Government and the lack of traditional "school spirit."

It is indeed true that the average MIT student believes that student politics are worthless. He is in general much more concerned with his own private interests (athletic, cultural, social, religious, sexual, or even academic) than in running for some silly office, attending uncheduled meetings of a "governing body" which does nothing and in fact very few are sure even exists, or playing that wonderful spectator sport so dear to the amateur politician, "Parliamentary Procedure."

In any discussion of student government, the one part of it which can be and has been useful to the MIT community is usually mentioned (I suspect that the reason it was barely mentioned this time is that it no longer exists): that is the Student Committee on Educational Policy. One of Martin Landy's famous polemics some time last year seems to sum up the position of SCEP: the head of the Committee is quoted as saying very indignantly, "The Zacharias Committee is only interested in the Tech Tool and not in SCEP." Landy goes on to point out that at the time all but one of the members of that much-touted part of Student Government were in Courses XIV and XV, which gives some notion of just how far this group is from the mainstream of MIT's academic life. Certainly the Zacharias Committee could not have had much patience with a group of superior clean-cut types with no academic ambition claiming to represent the MIT student body.

Dean Wadleigh in an interview in The Tech some years ago spoke of the process of education in terms of "scaling the great gray wall," a morbid image indeed. Certainly no one uniformly likes everything about MIT (5.02, Friday quizzes, Prof Frisch. . .),

but this belief that MIT's academic side is just an ordeal to be somehow gotten through before going out to a high-paying job somewhere seems to be unfortunately prevalent, and I believe that it is the most unfortunate part of MIT's spirit. It is interesting to note that there are students who actually like their work, and this does not seem to depend upon their grades. This is the 'spirit' which MIT above all other schools should be trying to foster, and is not. Elsewhere a substitute 'spirit' can be generated in "Yea State" pep rallies and sad Alma Mater songs, but the average MIT student is far too much of an individual to be affected by this sort of nonsense, or the equivalent nonsense of amateur politics.

Don Wagner, 65

(It is undeniable that there are many on campus who have no interest in student government and student-run activities. There may even be some who do not share the benefits of the work done by SCEP (which is very much in existence), the Student Center Committee, the Spring Weekend Committee, the Freshman Coordinating Committee, and the rest. There may be some who do not go to LSC movies, read The Tech, attend concerts, or buy Technique.

Many undergraduates do choose to ignore these services, as long as they continue to be run satisfactorily. Any hint of mismanagement never fails to bring outraged protests; but the hundred other things done well elicit no response.

To someone unconcerned with the origins of the benefits he receives, it may be difficult to connect student government with his athletic, cultural, social or religious life. But all of these areas are supported on campus by student-run organizations; all of them rely on student government for financial assistance, settling disputes, and other very practical problems.

It is a simple fact that undergraduate activities involve large sums of money, and that the services rendered for nothing by the students would cost the Institute a pretty penny were they not done by volunteers. (Please turn to page 8)

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Educational means examined

(Ed. note: This is the first of a series of three articles written by Jim Taylor '65, who recently attended the International Conference of Students at Cornell University. In this article, Taylor discusses some of the issues arising from a consideration of the purpose of a university education.)

A comprehensive examination of the purpose of university education within these confines of time and space is as absurd as the suggested 21.02 final exam question, "Discuss the world and its implications." Rather, I intend to raise some issues and suggest some questions which arose when the delegates to the International Conference at Cornell attempted to define the purpose of university education. I will then summarize our general conclusions, developing it as a framework within which every nation may find its educational system.

The first issue that comes to mind is the relation between national government and education. Should formal training in an ideology be mandatory? Should it be taught at all? Is it in a nation's best interests to "indoctrinate" the populace with the existing ideology? In this country, youngsters are taught the Pledge of Allegiance and respect for the flag in their formative years. In Britain, children are taught respect for the monarch and system of government just as early. Is this a duty of the educational system? Perhaps several ideologies should be taught, allowing the student flexibility to decide among alternatives without bias; this is the case in Lebanon, for example. Somewhere the balance between complete freedom of expression and complete domination by the state must be struck.

The ancient dichotomy between humanism and materialism must also be considered as it relates to the government. Anyone who suggests that every person in India be educated according to his own abilities and interests, irrespective of the needs of the country, is not being realistic. In such developing nations, the universities are expected to provide the political leaders to run the country, the scientists to deal with the supply and demand problem of food and population, the engineers to create cities out of wildernesses. Philosophers, poets and musicians are a luxury in such nations. There is simply no room for them in the educational system.

In a developed country such as Switzerland, however, education more nearly fulfills the classical role of education for the masses, making man aware and appreciative of his environment. Here, instruction can be devoted to bringing out the potential energies of the individuals. This is the Jeffersonian philosophy whereby a society moves ahead as a whole; this is where the "liberally educated" man is the adaptable man; this is where man can more nearly control his environment than be controlled by it.

Yet another question is the role of the university vis-a-vis the government. Should educational institutions serve as forums for interpretation and discussion of political issues? Should the university be critical of national policies and take an active hand in influencing them? Just where does the faculty stand with respect to the rest of the society? It happens in other countries that university professors assume a dual role. They must be above their society, looking objectively at its flaws and suggesting remedies. At the same time, they must be part of the society they are criticizing. In a nation such as West Germany, professors are at the top of the social ladder in terms of prestige, status and influence. How does the educational system recognize this? In what ways does education prepare a man to accept the responsibilities of being a political leader? The United States

has a long tradition of separation of government and education. What effect does this have on the performance of these respective functions? To what extent is this desirable and to what extent is this avoiding responsibility?

The conclusion that these questions suggest in terms of an international purpose of education, is that "no such animal exists." Education is necessarily relative to the development of environment in its social, political and economic aspects. For young struggling countries this means the purpose of education is directly related to the needs of the country. For older, established countries, education must still satisfy the needs of the country. In the latter case, however, the fulfillment of those needs is less sensitive to a particular mode of education. More time and effort can be devoted to educating the so-called "whole man." Samuelson's classic example of guns and butter is a good analogy. Education must choose, in this case, how much energy to devote to today's urgencies, how much to tomorrow's problems. Two hundred million teachers in India would make that country the most literate nation on earth, if it survived.

The conclusion that no common ground for international education exists, is not supported by the above arguments. The fact remains that the developed countries have experienced the growing pains with the accompanying effects on educational institutions. Experience, even someone else's, is a valuable teacher. In addition, these countries give developing countries some notion of where they're going. Accordingly, such ideas as junior year abroad, foreign exchange students, and foreign students in U. S. universities have developed and are currently thriving.

It is in these ways and for these reasons that education can and must span the gap between the "haves" and the "have-nots," between the "rich" and the "poor" countries, between the developing and the developed countries. The day of a universal purpose of education is not here, but it is coming.

(Next week, Taylor will discuss the problem of student-faculty-administration relations, with particular emphasis on the student's role, both inside and outside the university.)

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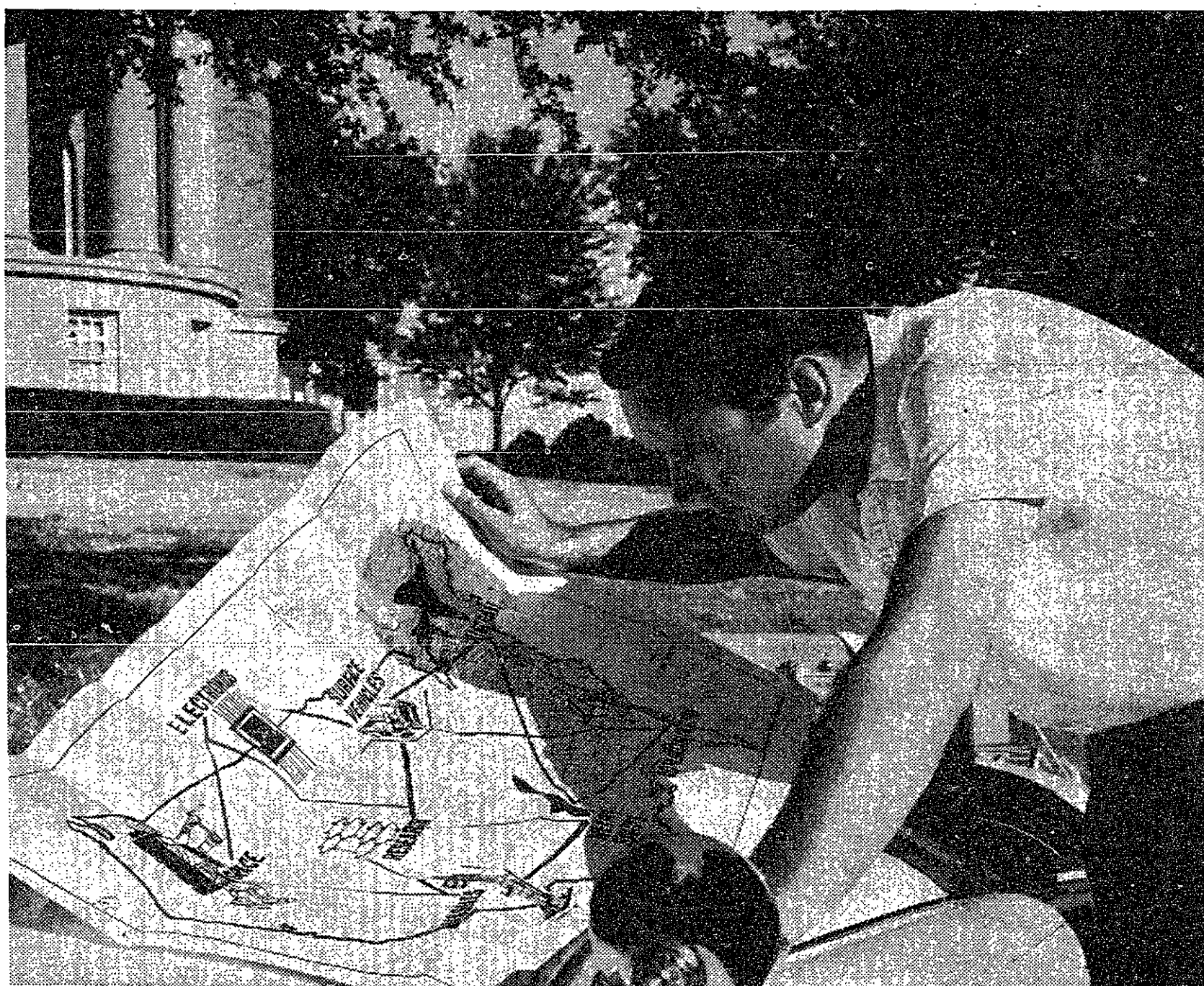
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Economists' poll shows MIT faculty second; MIT program rated first in effectiveness

A poll of economists at 85 colleges across the country has revealed that the economists consider the quality of the faculty responsible for the graduate program in economics at MIT second only to that of the Harvard faculty, and the MIT program the most effective in the nation.

As Professor Paul A. Samuelson

noted to *Newsweek* magazine, "We're Avis. We try harder."

Allan M. Cartter, Vice-President of the American Council on Education, announced the results of the poll, but the outcome was not unexpected according to Professor Robert L. Bishop, who was "gratified but not surprised."

According to Professor Bishop, Acting Dean of the School of Humanities and Social Science, the MIT program now typically attracts more National Science Foundation fellows than the offerings in economics of any other school.

RLE lab reports

Radio physics are studied

By Bob Hervitz

Microwave spectroscopy, radio astronomy, molecular beam studies, microwave electronics, and far infrared spectroscopy, are among many of the areas of Radio Physics now being studied by the MIT Research Laboratory of Electronics.

The radio physics research also includes a variety of topics in which the interactions between fields and particles provide the basis for exploring physical or chemical processes. The techniques applied to the studies cover much of the electromagnetic spectrum, including x-rays, opti-

cal, infrared, millimeter wave, microwave, and longer radio waves.

Radio Astronomy

In the area of radio astronomy, the most important achievement, according to Prof. H. J. Zimmerman, was the detection of the 18-centimeter absorption lines of the hydroxyl (OH) radical in the radio absorption spectrum of Cassiopeia A, thereby providing positive evidence for the existence of OH in the interstellar medium. The measurements were made by Prof. A. H. Barrett in collaboration with staff members of the MIT Lincoln Laboratory using the 84-foot parabolic antenna at Millstone Hill and a spectral-line autocorrelation radiometer designed by Dr. S. Weinreb. The digital autocorrelator evolved from Dr. Weinreb's doctoral thesis conducted in RLE several years ago.

Oxygen content of atmosphere

In another series of experiments conducted by the radio astronomy group, balloon-borne millimeter wave radio-meters were used to determine the oxygen content of the upper atmosphere. Measurements made as a function of balloon altitude agree very well with

theoretical expectations. These tests have been conducted at the National Center for Atmospheric Research located in Palestine, Texas.

Optical Radar System

An optical radar system using an optical maser as the transmitter has been used by Prof. G. Fiocco to detect meteoric dust particles in the upper atmosphere. Scattering layers were observed at 60 to 80 kilometers and at 120 kilometers.

The optical radar has also been used to observe the aerosol layer in the atmosphere at a height of about 20 kilometers. During the summer of 1964 additional observations were made in Alaska and Sweden in order to study the atmospheric scattering by the aerosol layer in concomitance with the appearance of noctilucent clouds. The results of these tests, still in the process of evaluation, are believed to be relevant to the dynamics of these clouds in their passage from twilight to darkness conditions.

Maser oscillator noise

Measurements of optical maser oscillator noise were reported by Prof. H. A. Haus about a year ago. During the past year it was found that these masers can have amplitude modulation noise caused by plasma fluctuations, and that they also may operate in a "quiet" state in which no noise modulation is observable. Measurements of the amplitude fluctuations of helium-neon optical maser oscillations both below and above threshold in the "quiet" state of operation have been made successfully.

Noise spectrum studies

The measurements below threshold show that the only major contribution to the noise spectrum is that of the amplified spontaneous emission. As predicted by theory, a narrowing of the spectrum is observed as threshold is approached. The measurements above threshold show, again that under carefully adjusted operating conditions, the noise is caused mainly by the spontaneous emission.

As the threshold excitation is exceeded more and more, the noise spectrum widens and decreases in relative amplitude, as predicted by a semi-classical theory treating the maser as a van der Pol oscillator. These measurements were made at Lincoln Laboratory in cooperation with Mr. C. Freed.

Development of clocks depending on purely electric interactions
(Please turn to page 13)

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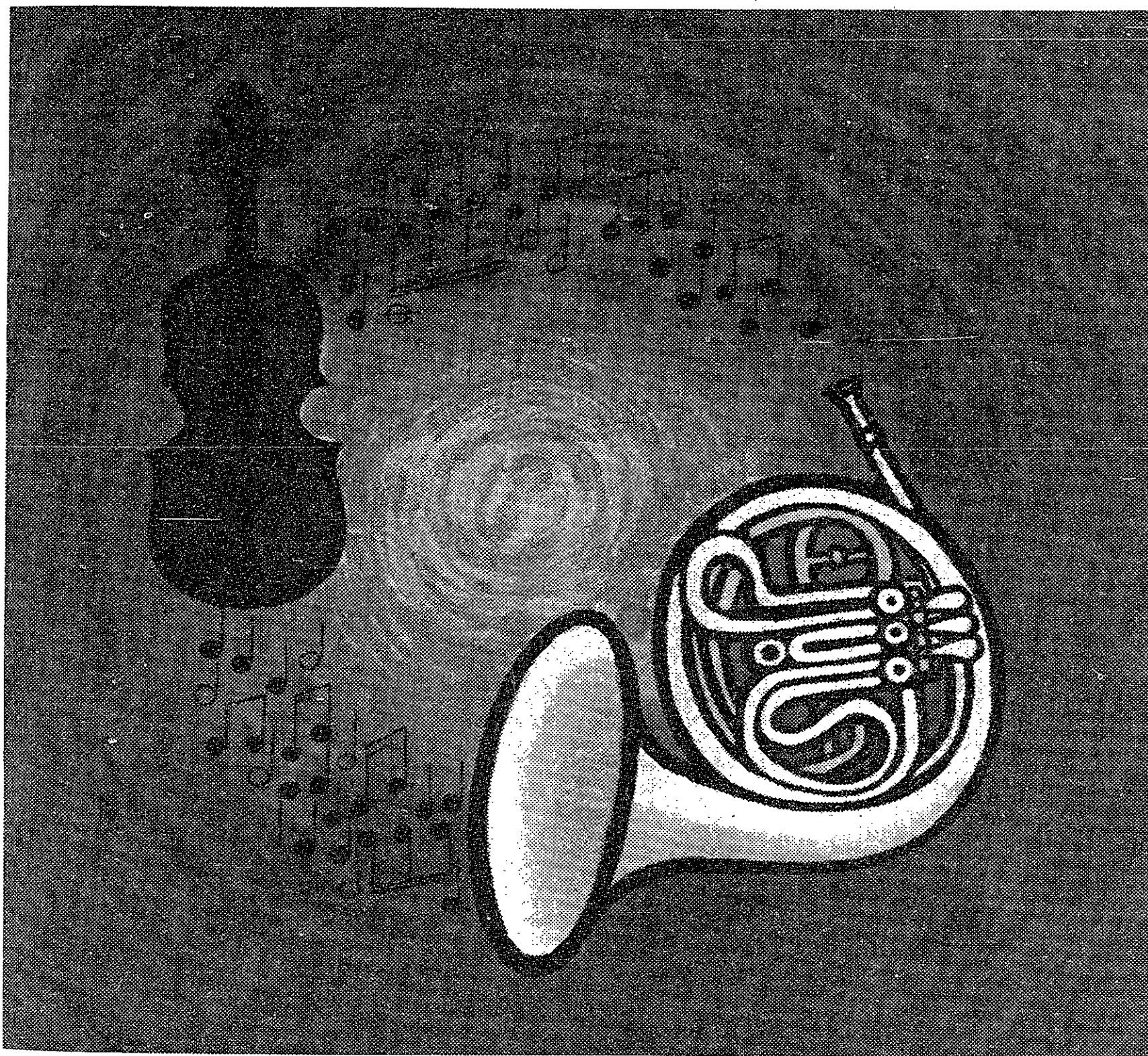
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Looking Back

Freshman etiquette hit

By Bob Horvitz

75 Years Ago

The Freshmen should remember that it is not the custom to fast two days before the Senior dinner and then order everything on the menu, and above all, not to have the dinner interrupted until the management can obtain a new supply of salt-cellars and butter dishes. It might also be added for the benefit of those who expect to take trunks, that all the signs in the hall are of marble or iron, and are bolted down.

50 Years Ago

Yesterday the Hare and Hound Club held a run over the Tech course. Ten men took the trip and waded through the mud to their hearts content. Graff '16 lost his shoe and the whole squad waited while he went back to find it.

Carnegie Tech has a cricket team under consideration. It is expected to develop the Pittsburgh engineering spirit.

Swearing hit

Whether coaches should swear at the members of a team between halves in order to put "pep" into the players, said to be a custom in many schools, is the question asked by Dean F. W. Johnson of the University High School, Chicago, in his exposition entitled, "The Problems of Boyhood." "The highest possible tribute to a man's character," he states, "is the refusal of the man's friends to tell him a vulgar story." The application of this to college coaches is not discussed.

"Watch Your Neighbor Or He Will Get You," proclaimed a front-page headline followed by this explanation: "The Tech last evening received a five-dollar bill in a mysterious letter accompanying a request that we publish the above sentence. For reasons best known to ourselves we present it to our readers. — Ed."

Cambridge police encounter
25 Years Ago

With the smoke of battle safely cleared away dormitory residents yesterday recalled many amusing sidelights of their first encounter of the year with the Cambridge police.

One of the first victims of the students' snow barricade was an automobile driven by a Boston University student. With him in the car was a young woman. When the car was halted by the wall of snow, the couple were greeted with a torrential hail of snowballs.

The pair were not without retaliation, however. Stepping from the car, the young student shouted to the attackers, "Just a bunch of cowards... why don't you build a good wall?" This rebuff only brought on a heavier fusillade, forcing the driver back into the safety of his automobile. Further jeers and snow balls, however, brought the student outside again.

Arguments with several of the bolder students finally over-taxed

the patience of the other occupant of the car. Briskly dodging a bombardment of snowballs, she strode up to a nearby student and demanded, "Who do you think you're calling a sorehead? Who do you think you are, anyway? ... 45 to 1, you ought to be ashamed of yourselves." With this, she brought up her open right hand and slapped the bewildered snowballer full on the cheek.

Poll at Kingston

10 Years Ago

(This survey is from the College World article. Ed.)

A survey conducted by Science Journal reports the following information about the fairer sex at Queen's University at Kingston, Ontario:

1. 86.54% would rather kiss agar plates than men.
2. 24.67% think "My Sin" is a French novel.
3. 79.21% think that Manual Labor is a Mexican.
4. 99.44% think that the Kinsey Report is a lot of hogwash—they can do better on their own.
5. 100% can estimate what their date is thinking... and say "No" before he asks.
6. 63.33% believe a refugee keeps order at a football game.

Managing board named at WTBS

The Technology Broadcasting System (WTBS) has transferred its reins of government to the members of its new Managing Board, elected March 1.

The new Station Manager is Matthew Fichtenbaum of Baker House, originally of New York City. His assistant is David Ulin, also a Baker resident, from Lexington, Mass.

The other officers elected were Business Manager Cecil A. P. Thomas of Senior House, from Goshen, Mass.; Program Manager Stephen Smoliar of East Campus, from Philadelphia; and Technical Manager Peter Young of East Campus, from Summit, New Jersey.

Letters to The Tech

(Continued from Page 5)

For those with no other than a monetary goal in life, this saving alone should justify student government.

No one ever won a Nobel Prize for his work in student government; but no one ever accomplished anything without working with other people. Some students at MIT are not content with their ability to sit alone in a lab and do titrations. Their evaluation of today's technical problems has convinced them that to reach high achievements they must learn to work effectively with their colleagues and subordinates. They do not believe that the mainstream of MIT's academic life should be removed from the mainstream —Ed.)

of the world's life. MIT's spirit is indeed the enjoyment of the tasks to be accomplished. There are immature harpers whose only phrase is "Tech is hell." But few of them are found in student government. Anyone with a good perspective on the whole of MIT life enjoys it; anyone whose mind is chained to the lab desk is bound to abhor it. Our "amateur politics," like our amateur music and our amateur lab projects, is part of the education available, but not forced, at MIT. This breadth of opportunity makes the Institute great; taking advantage of it makes the student successful. —Ed.)

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was in the Administrative Department where he had the opportunity to become familiar with procedures and communications between dealerships and the District Office. In four months he moved ahead to the Sales Planning and Analysis Department as an analyst. He studied dealerships in terms of sales history, market penetration and potentials, and model mix. This information was then incorporated into master plans for the District. In March, 1964, he was promoted to Zone Manager—working directly with 19 dealers as a consultant on all phases of their complex operations. This involves such areas as sales, finance, advertising, customer relations and business management. Responsible job? You bet it is—especially for a man not yet 25 years old. Over one million dollars in retail sales, annually, are involved in just one dealership Steve contacts.

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Inside Inscomm...

(Continued from page 4)

government, but who are not now actively involved: now is the time to show your interest and ability. Read over this week's supplement; choose the area in which you would like to serve, and give your name to Betty Hendricks in the Inscomm office, x2696, for consideration. Notices of smokers, interviews, and elections will be sent to all interested.

The interest this year looks promising — perhaps it is spurred by the Student Center. If it keeps up, the year should prove very productive.

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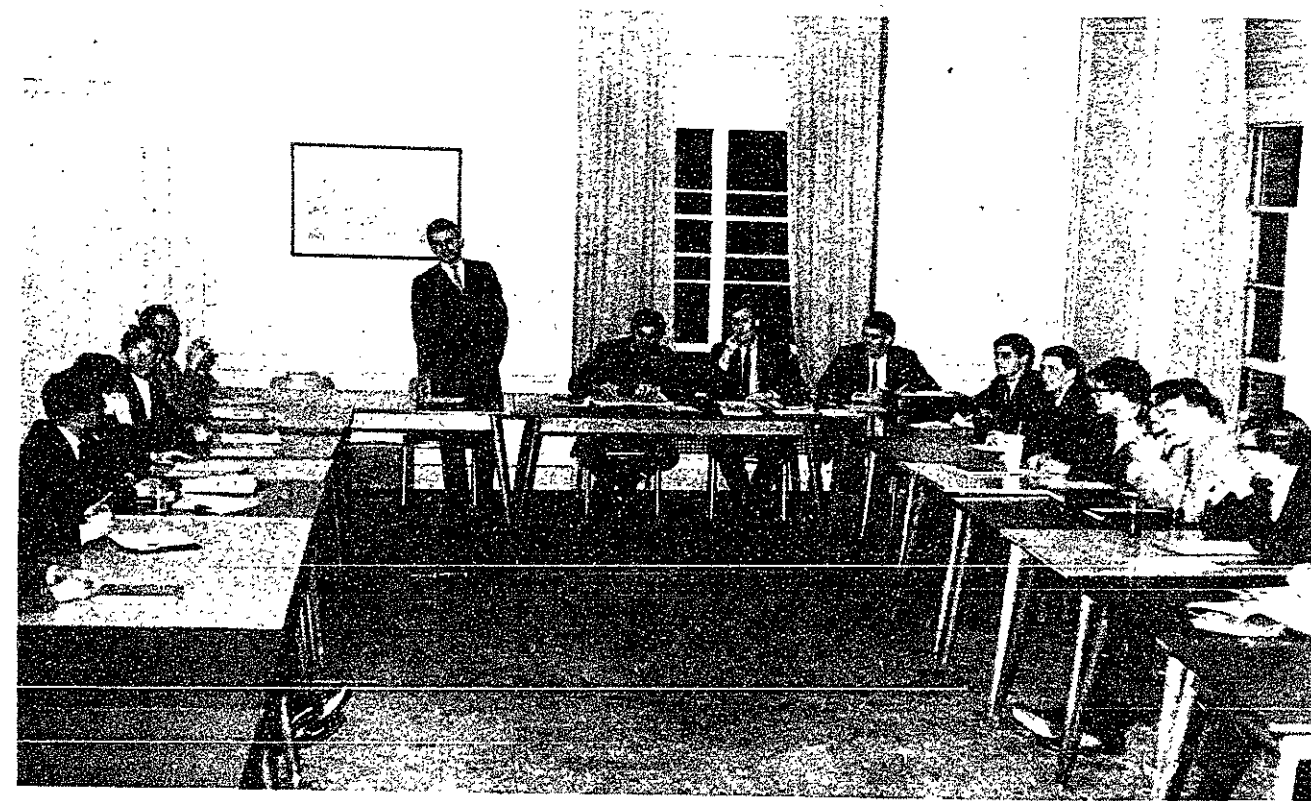
The importance of Inscomm

By Douglas C. Spreng
Chairman, PRC

When I took over the duties of Public Relations Committee Chairman last year around this time, my knowledge of student government was perhaps vague at best. Now, after a year of working actively with those who comprise it, I feel as if I should try to convey to all undergraduates the importance of its existence and the benefits that are derived from being an integral part of it.

I never fail to wince when I hear Inscomm referred to as a "glory spot" from which little worthwhile emanates and where much worthless discussion takes place in the name of student government. The reasons for these feelings are, I am sure, based on a large extent on the lack of publicity and a certain amount of apathy on the part of those who are not aware of the benefits they receive from student government.

Without such activities and projects as Christmas Convocation, Spring Weekend, Junior Prom, Freshman Weekend, Intercollegiate Conference, Summer Work Abroad, Freshman Feedback, Open House, Presidential Straw Vote, Social Calendar, Student Center, and the \$60,000 Activity Budget, the Institute would be a less desirable place to spend four years. Yet these are only a few of the many benefits that emanate from student government. Nowhere else do the students at a university influence the activity that arises outside of the classroom as they do here at MIT. Nowhere else in the country do students have as much freedom and trust to operate these activities on their own as they do here at MIT. As a result, nowhere else do students have the opportunity



The Institute Committee in session. Left to right: Dick Tsien, John Kassakian, Bruce Morrison, Dave Rubin, NSA guest speaker, Bill Samuels, Jim Taylor, Matt Mleziva, Doug Spreng, Rusty Epps, George Piccagli, Bob Gagosian, Jay Groves, and Roddy McLeod.

Photo by Len Feshkens

as they do under this great system.

Furthermore, these student-run organizations do not simply operate automatically. They are only the result of much time and effort delivered by those who are intimately involved with them. They succeed only because individuals devote part of their time to discuss innovations, work with the administration, and carry out the details of a current project.

I should like to compare student government with a large industrial organization. Inside a corporation, there are those who perform the actual task of producing the items. Each production group has a foreman who organizes their actions, watches for problems, and sees that their productivity is maximized. Over all these people, one finds the President and the Corporation Board, comprised of experienced men in

their field who act to promote the existing welfare of the business and who search for new fields of expansion so as to keep the corporation successful and progressive. To deny the importance of any of these individuals is to deny the essence of our present corporate system. Although the analogy is not perfect, one can clearly see the identities of subcommittee members, subcommittee chairmen, the UAP, and Institute Committee with their respective counterparts.

I hope that those who feel they have been deprived of complete knowledge concerning student government at MIT will read these four pages carefully. Even though this article cannot possibly convey all information about MIT's student government it should create a far greater understanding than has heretofore been established.

Steps explained for gaining posts on subcommittees

In order to obtain a high position in student government, one must exhibit a certain amount of experience and establish a reputation for doing a good job in whatever one undertakes.

Inscomm subcommittees are a good place to obtain valuable experience. Some subcommittees have no membership requirements. An interested person merely needs to discuss the matter of joining with the chairman and, if the interview goes successfully, the man becomes a member. Subcommittees of this kind are Public Relations Committee and Foreign Opportunities Committee.

Others require a formal interview with the committee officers, after which an election takes place. Secretariat, Finance Board, Student Center Committee, and Student Committee on Educational Policy are examples of this. Freshmen are, however, not eligible for Finance Board and Student Center Committee, and only second term freshmen are eligible for the Secretariat.

The elections for subcommittee chairmanships are as follows. It is presupposed that the candidate has worked on the subcommittee previously and understands its procedures. If this is not the case, he may unearth a great deal of information by reading old reports and talking to the outgoing chairman. Prior to the election, it is considered wise for him to visit all the voting members of the new Inscomm, explain his qualifications, and express his views and future plans. The candidate must then go before the Inscomm Executive Committee and relate once again the above. They then pass on a recommendation to Inscomm. At the election meeting, a short speech is required to recapitulate all that has been said previously.

The Spring Weekend and Intercollegiate Conference chairmen and members are all reviewed by the Executive Committee and voted upon. Other Special and Temporary Subcommittee chairmen are selected by the UAP upon the advice of past chairmen. Usually, any interested person may become a member of these committees by having an informal interview with the chairman.

Reorganization is Inscomm's task

This year has been one of great significance for Institute Committee.

Reorganization was the largest project undertaken and its results are starting to take seed now. The entire Constitution and By-laws of the Undergraduate Association were surveyed and a large part was rewritten to clear up ambiguities or to redefine Inscomm's range of activity and its power.

There can be no doubt that, when a few small stumbling blocks are eliminated or amended, the new Constitution and By-laws will be approved.

How reorganization will affect the environment of committees, ASA activities, all-campus projects, class governments, and the student in general is given on the following two pages. A detailed account of its structural change is included. **Nothing stated is final.**

Inscomm began its term of office last year by settling a dispute between the Social Action Committee and Technology Community Association. Soon after, it commenced discussion on the possibilities of reorganization and an Intercollegiate Conference. The summer group was formed to study our student governmental structure. Inscomm reconvened in the fall and discussed the possibilities of various projects, among them the Kennedy Library Fund and the Straw Vote. Since then, reorganization has taken up the majority of Inscomm's time.

FinBoard administers \$60,000 allotment

It is the responsibility of the Finance Board to administer the annual appropriation of nearly \$60,000.

There are a number of questions which arose at Finance Board Budget hearings last spring: Of what benefit to the undergraduate community are student conferences? How much can we expect activities to do on their own before seeking professional services? What type of rewards and incentives are appropriate for activities and subcommittees? Dinners? Refreshments? What is the line of demarcation, in groups of co-curricular nature (Dramashop, Music Clubs), between expenses the Finance Board should pay, and those the Dean's Office should pick up?

Other cases came to the attention of the Board during the year. A contribution was made to the Association of Women Students for the Symposium held in October. The question of graduate students and their relation to the Undergraduate Association came up in relation to interest shown in the National Intercollegiate Chess Tournament in Los Angeles.

In addition to its other activities, Finance Board studied the entire structure of the federal tax system, with specific emphasis on how activities could properly maintain their tax exempt status. The result of this study will be publicized, and, in the future, the Board will function as a clearinghouse for IRS matters.

The impending move to the new Student Center brought about a number of problems. Among these was the responsibility of negotiating with the administration for operating funds for the next two fiscal years. In view of the unpredictable impact of the Center, this is an imposing and challenging task.

Secretariat sponsors presidential straw vote, elections

In addition to performing the required duties of secretarial work for Inscomm, the Secretariat has taken on a number of extra projects.

The standing functions of the Secretariat include handling bulletin boards and booths in Building 10, checking the constitutions of

various activities, and running class elections.

After the UAP and class elections, it will examine whether or not the campaign period was long enough (3½ weeks). It was shortened so that the new Inscomm would have more time to start its work second term. Secretariat will

also be checking to see if the establishment of the class executive committee had the desired effect: to prevent several qualified men from running for the same office and eliminating each other.

Two other special responsibilities have been worked on. The first was the annual Christmas Convocation presented for the entire MIT community last December at which Dean Harrison spoke. The second is the upcoming Junior Science Symposium which is a conference held for outstanding students from local high schools.

The Mock Election kept Secretariat busy during the middle of the first term. This was a coordinated effort with the major political clubs to arouse some interest in the national election and bring to light the important issues. The election turnout was very encouraging; more people voted than at any other campus election during the past few years.

Under reorganization, the responsibilities of the Freshman Coordinating Committee will be turned over to the Secretariat. The primary duty is the organizing and planning of the Freshman Orientation Weekend. This should be a very good change. First, the work will be handled by an efficient, well-established group, and second, it will be a project which will get the newly-elected sophomore members quickly involved in student government.

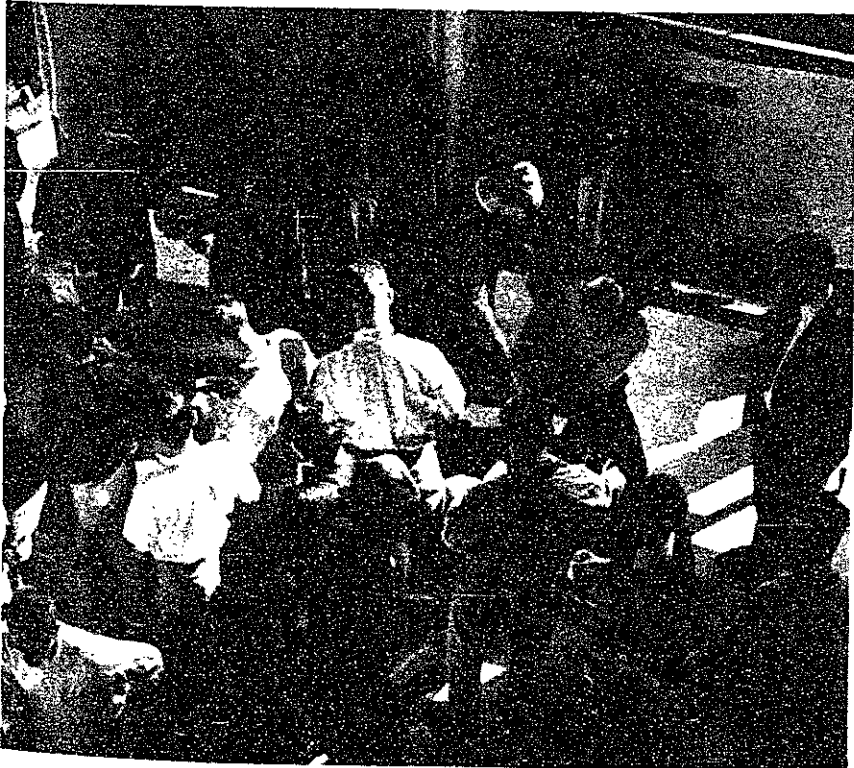


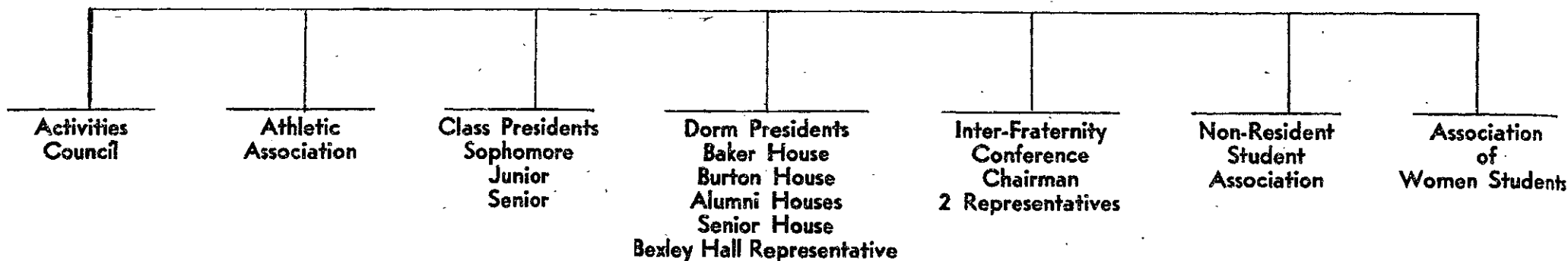
Photo by Elliot Green

Students cast their vote for the presidential candidate of their choice in the mock election poll held last fall. The entire procedure was organized and conducted by members of the Secretariat.

Institute Committee nears completion

The old . . .

UNDERGRADUATE ASSOCIATION PRESIDENT



Permanent Subcommittees

Finance Board
Secretariat
Student Committee on Educational Policy
Foreign Opportunities Committee
Public Relations Committee
Freshman Coordinating Committee
International Students Council
Judicial Committee

Executive Council

UAP
Finance Board
Secretariat
1 Member-at-Large

Temporary & Special Subcommittees

Open House and Parents Weekend
Summer Job Opportunities
Intercollegiate Conference
Spring Weekend Committee
Student Center Committee
Christmas Convocation

The reorganizational procedures that have taken place in student government in the last year can be placed into two categories: 1) Structurally, and 2) Philosophically. The need for these changes became apparent primarily because of the new Student Center and drastic changes in Activities Council. In addition to this, a desire was expressed to keep Institute Committee to within reasonable size and provide better communication between various groups.

The Old Structure Inscomm's Purpose

The chart on the left will serve to illustrate the structure of the present Institute Committee. It consists of sixteen voting members and various subcommittee chairmen. With the Undergraduate Association President acting as presiding officer, Inscomm operates essentially as a "discussion board" for reviewing campus issues, planning new projects, and seeing that all aspects of student government are functioning smoothly. It represents the broadest opinion group on campus.

Voting Members

There, is heard, the voice of the dormitories, the Interfraternity Conference, Association of Women Students, Non-Resident Student Association, Activities Council, Athletic Association, and the Class Presidents. While many other people may attend Inscomm meetings, it is these men and women who decide the major student governmental issues by exercising their voting privileges with regard to Inscomm legislation and policies.

Permanent Subcommittees

The subcommittee structure is found directly beneath the voting members. A complete list of standing committees lies to the far left and right. These are divided into two categories. The Permanent Subcommittees are those which function continuously throughout the school year. Their chairmen sit on Inscomm but do not have a vote. Rather, their presence is necessary to advise Inscomm when the need arises and to report on the progress of their activities. In contrast, many ideas may be handed down to them by the voting body to aid them in their work and to provide fresh channels of expansion.

Temporary & Special Subcommittees

The Temporary or Special Subcommittee are those whose activities extend over a short period of time or occur sporadically from year to year. For instance, Christmas Convocation, which occurs every year and is organized by students, realistically does not require constant activity throughout the year for those who produce it. Therefore, it falls into the category of Special Subcommittees. The Intercollegiate Conference Committee only exists by an act of Inscomm and does not operate at all when there is no impending conference. Even though it may be extremely active prior to the conference, it is accordingly dissolved when the conference is ended. Thus, it is a Temporary Subcommittee. The chairmen of these committees generally do not attend Inscomm meetings unless they are called in to report on their progress and future plans.

An Academic Interlude

Clearly, the majority of the visible work produced by student government is manifested by the above committees, who spend literally thousands of man-hours in carrying out their programs. The result is that MIT becomes much more than just a place to study classroom material, it is a place where one can both benefit from and contribute to activities outside of the academic whirlpool.

The Executive Council

The Inscomm Executive Council is perhaps one of the least known and most influential groups on campus. It is comprised of the UAP, the chairmen of Finance Board and Secretariat, and one member-at-large. The member-at-large is elected by Inscomm early in the year and must be one of the sixteen voting members.

These four men are responsible for interviewing candidates for offices elected by Inscomm, primarily those seeking subcommittee chairmanships. The Executive Council then relays their opinions on to the rest of the voting members of Inscomm at the election meeting.

Further Contributions

In addition to these duties, they discuss issues and new policies in

detail so as to spare Inscomm lengthy debate on these topics. The Executive Council will visit deans and call in various activity leaders and other sources of information such as subcommittee chairmen in order to present all facets of the topic in question to the voting members. There is no doubt that an Executive Council proposal or decision carries a great deal of weight with it.

The New Structure

The question of reorganization basically centers around one word: efficiency. How can Inscomm and its subcommittees function most effectively, both in debate and action? Last spring, a summer committee which would work during the summer was formed to look into the question in detail by interviewing activity leaders, subcommittee chairmen, and other informed persons. After many hours of questions, answers, and discussion, the group arrived at certain conclusions.

THE A A Seat

A survey of the voting membership reveals certain problems. The Athletic Association President seat is designed to give athletics their voice in student government. However, the AA has such a strong, self-sufficient structure of its own, that it is equipped to handle any problems that arise within its body. Furthermore, the last two AA Presidents have both expressed lack of interest in the proceedings of student government.

Advantages of the AA's Presence
However, it is recognized by both parties that a great deal of mutual benefit can be derived by having athletics and student government tied together. Their structures are quite similar and organizational problems can be solved by consultation between the two. Furthermore, it appears that absolute autonomy between athletics and student government is undesirable; the vastness of the athletic program calls for its own representation just as does the activities program under Activities Council.

In view of the above, there is little doubt that the AA will retain their Inscomm seat.

The N R S A Seat

The Non-Resident Student Association seat has been questioned because of its hazy definition of

representation. Although hundreds of students are non-residents, only about one hundred fifty are claimed as active members, only ninety-one were listed in the scholastic standings, and only one hundred voted in the last election for Inscomm representative. Compare these figures with Burton House (531), Baker House (348), East Campus (404), and the IFC (1134). The problem then exists: How many people are really being represented, hundreds or just ninety-one?

Its Contributions

On the other side of the argument, it is held that NRSA is extremely active in intramural sports, activities on campus, and athletics, and should be treated no differently than any living group simply because the members don't live under the same roof. They also represent a unique point of view.

The Bexley Hall Dilemma

Bexley Hall presents another problem. Its internal government is based upon a rotating chairmanship. Unlike the other dormitories which elect a president and executive committee for an entire year, Bexley's officers vary from month to month. They have solved the Inscomm problem, however, by electing an Inscomm representative for the entire school year. The objection to this is that many people hold the living group president as the most informed person in his group and that Bexley, having no such office, is not represented correctly. On the other hand, many others consider these arguments quite invalid and believe that Bexley's voting seat should, indeed, be retained.

A prediction can be made at this time since there is a majority in both the Bexley Hall or NRSA cases. They shall probably retain their voting seats.

Subcommittees

The "new" chart on the right-hand page reveals the formation of a third category. Going by the name of Administrative Subcommittees, the new constitution calls for the chairman of each to sit on the Inscomm Executive Council along with the UAP. Comparison with the "old" chart will reveal that the member-at-large has been dropped, Student Center Committee and Activities Council have been added, while Secretar-

iat and Finance Board have been retained.

Increased Importance of the Student Center

The reasoning for this change due to many new situations that have recently arisen. The Student Center Committee will be one of the most active and important functions of student government. Its presence on the Executive Council will insure good communications and feedback with Finance Board, Activities Council and Inscomm in general. The intricate financial problems involved in furnishing and maintaining the building must be faced; they arise; therefore, the Finance Board chairman must be in constant contact with the Student Center Committee chairman. This is accomplished by having both on the Executive Council, which meets quite frequently.

Activities Council Changes

No less than twenty-five objections arose last year for the UAP or the Executive Council to discuss problems and policies with the Activities Council Chairman. In view of this, it was proposed to include the Chairman of Activities Council on the Executive Council, even though he is a living member of Inscomm. Although this change places the AC Chairman in a very high level of importance, it must be noted that does, in fact, represent the eight activity groups which consist of over a thousand members and which receives tens of thousands of dollars annually. Furthermore, the new method of election by the Association of Students Activities guarantees that a single individual will assume position.

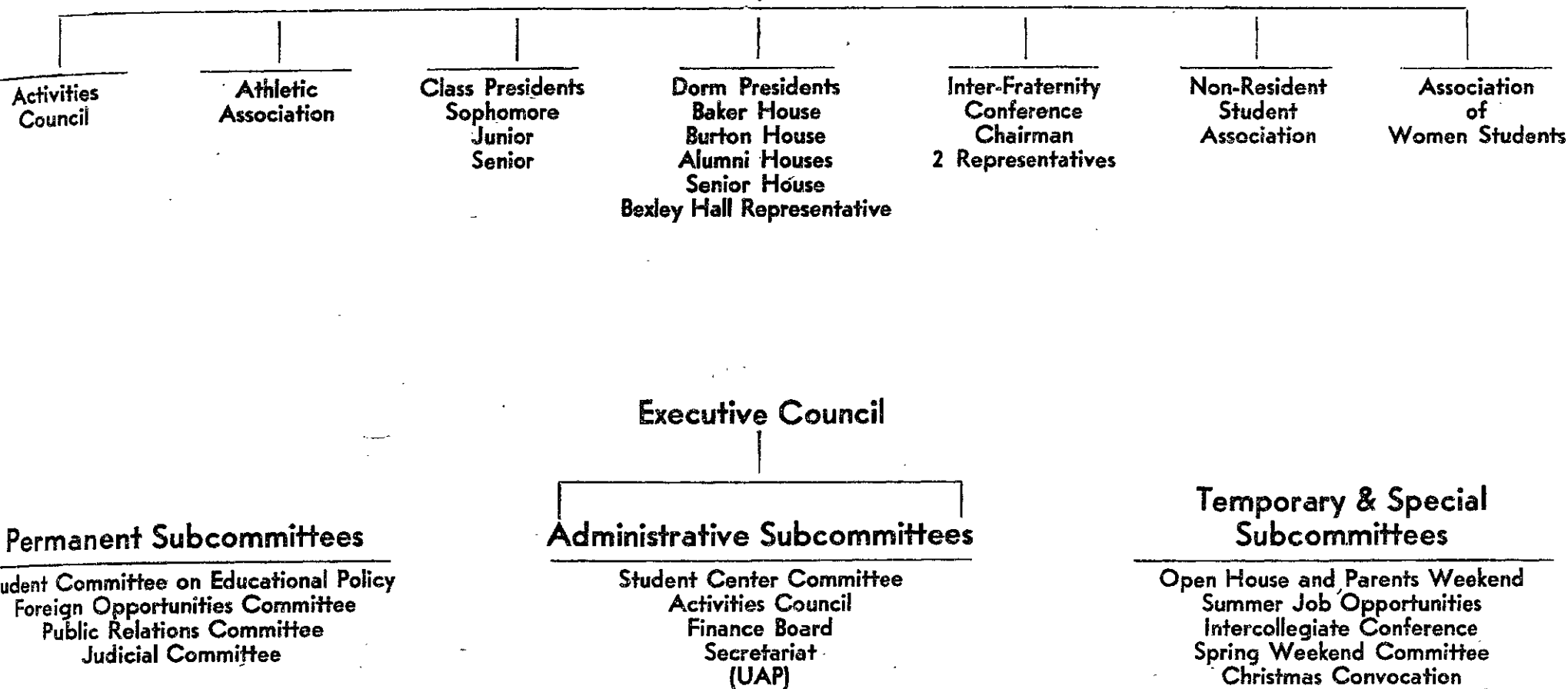
The changes in Activities Council now under consideration designed to strengthen AC's position and to make the Council more effective in its discussion and action. They are summarized below:

Constitutional Revision

1) The size of the Council be reduced to ten men. 2) permanent seats will be elected and all positions will be for election each year. 3) activity may be re-elected. (Please turn to page 11)

n proposed structural reorganization

... The new UNDERGRADUATE ASSOCIATION PRESIDENT



(Continued from page 10)

position. 4) The President, Secretary, and Treasurer will be elected by the entire ASA at the annual Endicott Conference in spring. 5) The remaining positions will be elected by the outgoing Council and the new officers.

Legislation concerning Activities Council as outlined above is pending. Because the future of the Student Center Committee is uncertain, it will be on the Executive Council for a period of only one year. If, at the end of this time, it becomes necessary to retain this status, it will be required to state its case and be approved by Inscomm at the time. If Inscomm does not approve the Student Center Committee in need of that position, it will be placed among the Permanent Subcommittees.

Under Secretariat

It was further decided that the Student Coordinating Committee is not wholly effective as a coordinating entity. The problem of coordination arose annually with out coordination. In addition, the activities of the FCC were not large enough to warrant its permanent status. As a result, FCC will be incorporated as a part of Secretariat, and it will be organized by a head of Secretariat and carried out by Secretariat members.

Position on Inscomm

The problem was the question of whether or not the Inter-Fraternity Conference Students Council should be an Inscomm subcommittee. Its function has never been clearly defined and its organization is disjointed — at best. It is composed of representatives from the various foreign groups on campus who are interested in ISC mostly in the area of a cultural exchange. They feel they should have some representation on Institute Council and have proposed that they be given a voting position. This is generally opposed on the grounds that they already have representation through their group and Activities Council.

A Complex Problem

However, it is generally felt that an organization such as ISC should exist, even though it is not obvious where it fits into activities or student government. No heavy majority exists either way at the moment and this topic will be discussed before a decision is reached.

The Temporary and Special Subcommittees will be left intact.

The New Freshman Council

The Freshman Council has been reorganized by living groups. Wherefore, in the past, Council was elected by sections, thirty-five in number, it shall now consist of sixty-eight regular members: Fraternities, 28; Burton House, 10; Alumni Houses, 10; Baker House, 6; Senior House, 6; McCormick Hall, 3; NRSA, 2; Bexley Hall, 2; and Student House, 1. It is hoped that this arrangement will provide better cooperation from all living groups and strengthen the activities of the Freshman Council accordingly.

Class Officers Revamped

As most students now realize, the class officer system has been altered. The President has been retained, but the vice-President and Secretary-Treasurer positions have been replaced by the Executive Committee. For the Seniors and Sophomores, the ExecComm is comprised of three members and for the Juniors it is six members. Those elected in the Junior Class will automatically form the Junior Prom Committee and the President will be the JP Chairman who will report to Inscomm the progress of his committee.

The New Philosophy "The Overview Function"

Upon seeing that no concrete definition of powers existed in the old Undergraduate Association Constitution, a new Constitution was written which more carefully defined Inscomm's position with respect to committees, activities,

and over-all student welfare. The discussion of Inscomm's philosophy led to the coining of a new cliché: the overview function. Essentially, overview consists of a definition of strength, that is, what Inscomm can discuss, what it can legislate, and how it can enforce its legislation.

Discussion

After examining the pros and cons, it was concurred that anything which affects the general MIT community may be discussed by Inscomm if it sees fit. By the words "if it sees fit," it is meant only that discussion must be asked for by a member. At any point in the debate, someone may challenge the importance of the topic, and if a majority is in favor of continuing the debate, it shall continue. If a majority is not found, the topic in question will be dropped. Furthermore, discussion of the topic does not necessarily imply that any action will be taken, rather, this is one method to advise a group, committee, or individual, or to become better informed of the issue at hand.

Action

It is generally felt by members of Inscomm that action or legislation should not take place when the issue concerns an internal affair of a living group. Since the dormitory presidents and the Interfraternity Conference are usually equipped to deal with problems such as these, Inscomm may only advise in these matters. However, if such a situation develops into one of a non-internal nature or if the dorm president or IFC should not be able to control the situation, then it becomes justifiable for Inscomm to review the case and issue either a recommendation or mandate.

Enforcement

How can any such mandate be enforced? Where is the power of Inscomm located when it makes

a decision? The answer lies largely in the administration. The office of the Dean of Student Affairs, the Dean of Residence, and the Faculty Judicial Committee all carry the powers of enforcement. Naturally, Inscomm must have their support in such a matter.

Another source of power is in the student body itself. Any decision of Inscomm may be challenged and if the majority of the undergraduate students concur with the decision, it remains intact and enforcement can be aided by the general will of the students.

Further Action

What is the relation between Inscomm's activities, and class governments? The feeling is nearly unanimous on both points. After the reorganization of the Activities Council and its definition of powers, all activities will be subject to review by the Council. In the case of an inter-activity dispute or a question of ethical behavior, Activities Council will be called upon to settle the entire matter. It is, therefore, not expected that any Inscomm directive would ever occur. However, Inscomm exercises total overview for all activities and, therefore, over Activities Council, also. If a situation should arise where it becomes necessary for Inscomm to intervene in matters concerning either an individual activity or Activities Council as a whole, it may do so.

Class Governments

Likewise, Inscomm will reserve the right of complete overview concerning the class governments. If the officers of any class attempt to undertake a project or break a precedent that Inscomm deems detrimental to undergraduates in any way, a recommendation or mandate to these officers will necessarily follow. A good case in point would be that of a class-sponsored function which, to all appearances, will throw a class far into debt. The action taken would clearly be for the benefit of the class. Methods of enforcing this mandate would be through

the administration and Finance Board, which controls all monetary flow.

Subcommittee Overview

Once again, a nearly unanimous decision has been reached in regard to subcommittees. Since all subcommittees chairmen are elected by the Institute Committee, the members of Inscomm have the privilege to remove (by a 2/3 majority vote) any chairman who they feel is unworthy of his position. Furthermore, choice of members and project formulation are subject to total review in any case where it is found necessary. This does not mean that subcommittees have no freedom or flexibility; it only means that if an undesirable situation occurs within a subcommittee, Inscomm has defined methods of eliminating the problem. Subcommittees then remain free to innovate projects and carry them out as they see fit but they are protected by overview from falling into a dangerous state of affairs.

Subcommittee Specifications

To eliminate "dead horse" subcommittees from continuing as an inert part of Inscomm, all temporary and special subcommittees will undergo certain specifications as to length and tenure of existence at their inception. These conditions will be specified by the Inscomm at that time. If no specifications are placed on such a committee, it will become defunct when the new Inscomm takes over unless the new group decides to retain it and accordingly votes to retain its existence.

Future Importance

The adoption of this Constitution will be, it is hoped, a step to increase the efficiency and overall effectiveness of our present system of student government; to strengthen the regard in which the administration already holds it, and to promote the general welfare of the undergraduate body for which it stands.

Student Center Commission faces busy year

SCEP plans six seminars

Just what will be going on in the structure under that big orange crane, anyway?

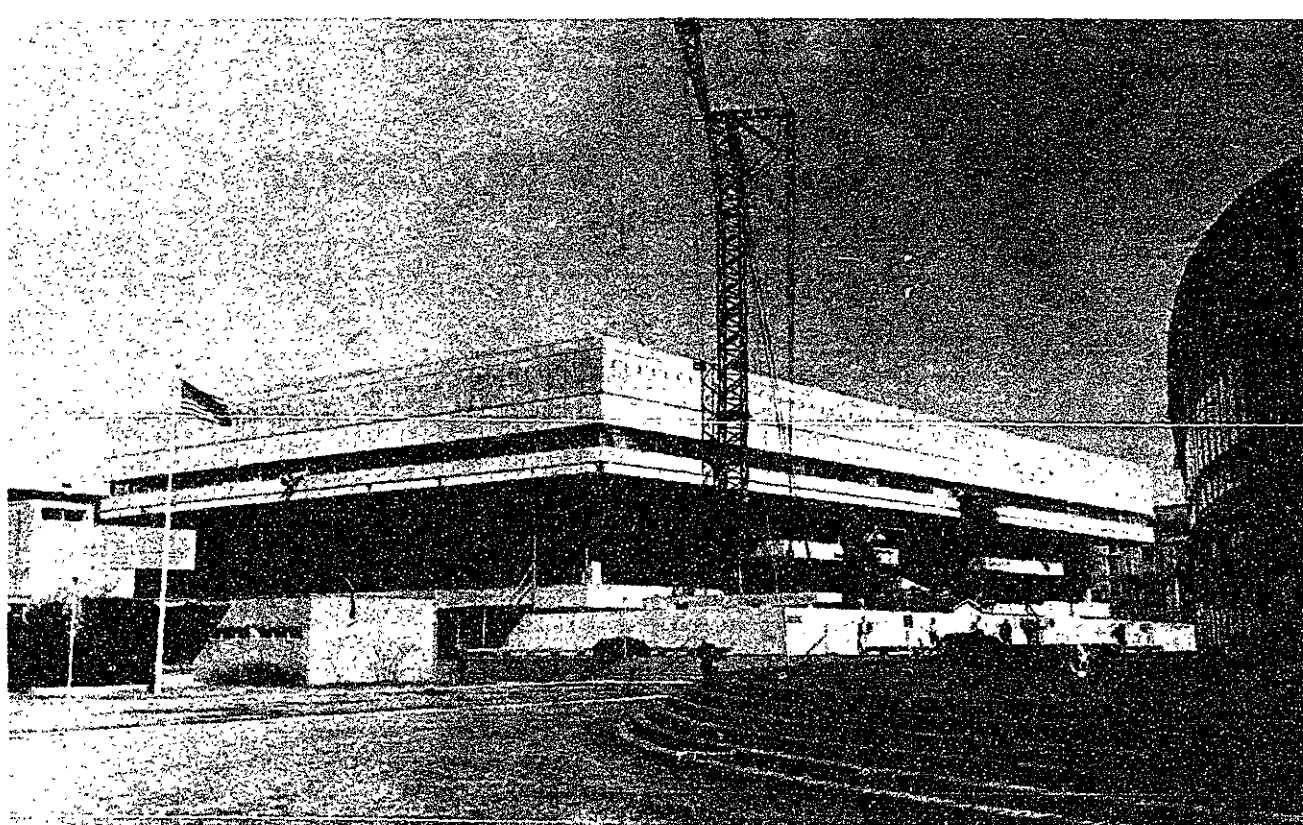
While no one has a crystal ball handy, the Student Center Committee has been tackling problems concerning the physical details of the Center, its operation and administration, and introducing the Institute community to its facilities.

During the spring and fall of 1964, the Committee worked on the physical lay-out of the building. Final plans for the activities floor and recreational areas were discussed and approved, with the consultation of the Dean's Office, Professor Eduardo Catalano, of the Department of Architecture, and James Murphy, Assistant Superintendent of Building Services.

When funding for the Reserve Reading Room was completed, the Student Center Committee sat on the committee that decided its final layout. Plans for the new Coop facilities have also been discussed.

Center's administration discussed

The sixteenth annual conference of Region 1 of the Association of College Unions met at Bridgeport



The new Student Center, scheduled to be finished by next fall, will house activities, a recreational area, and a Reserve Reading Room.

University October 16, 17, and 18. After attending this conference, the Committee reaffirmed its position that MIT's activities-government structure is unique, both in the amount and quality of par-

ticipation it elicits and in the freedom given the participants. In view of this, the Student Center Committee report states, "It has become quite clear that the Student Center's contribution to the community would be nullified if its administration entailed the loss of autonomy and freedom."

The Committee's problems have been compounded by the current Inscomm reorganization. They have been in the position of telling the administration what responsibilities the undergraduates can handle, based on the Committee's niche in student government, while simultaneously telling Inscomm what the Committee's place should be, based on the powers they hope they will be granted.

Status to be clarified

A conference between the Committee and student leaders took place at Endicott House December 12. There have also been a number of formal and informal meetings with Inscomm and its Executive Board. The result of these discussions is that the Chairman of the Student Center Committee will be a member of the Executive Committee for the coming year. At the end of this period, a decision will be reached as to whether or not this status will become permanent.

The Committee's status in relation to the Institute has proven somewhat more difficult to define. It is certain that undergraduates will hold responsibility in the area of scheduling facilities and programming certain areas. They will also have the job of providing a channel of communication between the various groups and interests using and concerned with the Center.

Among the unfinished tasks is that of making the administrative structure explicit. The present committee hopes to complete this before leaving office.

Problems remain

Two of the many remaining unsolved problems will face the next committee even before the Center is occupied. Furniture, tenancy, and capital changes constitute one of the problems. Although it is fairly clear that most furnishings in the activities offices will be purchased by the Institute, their exact ownership has yet to be determined. The nature of tenancy in those offices, along with the mechanisms for making capital changes elsewhere in the building, also must be established.

The second problem facing the Committee is that of introducing the Institute community to the Center and its facilities. Dedication ceremonies are in the discussion stage, and a large Endicott conference is being planned for this spring. However, the Committee's task is far from completion.

FCC aids frosh orientation

According to the Committee chairman, Freshman Coordinating Committee had a successful year, achieving the goals it set out to accomplish.

This year's freshman orientation program began with a dinner for pledge trainees and freshman counselors. Thursday afternoon of Freshman Weekend was taken up by tours, advisor conferences, and

Committee created to plan conference

Last fall, Inscomm created a Conference Committee "to investigate the possibility of holding an intercollegiate conference at MIT and possible topics for such an event."

The general guideline for topic choice was that the topic should be an issue which affects college students now and, possibly even more important, in their years after school. From a list of seven topics considered by the committee, the subject of urban affairs was chosen.

The committee will soon begin actual planning for the conference, which is scheduled for April, 1966.

elective conferences. The last is a new addition and was deemed successful by the Committee. The Activities Assembly and Midway went off well, with more than 90% of the freshmen attending.

The main effort of the FCC Chairman this year has been to motivate the reorganization changes regarding Freshman Council and Freshman Orientation. In the future, the Secretariat will have the responsibility for running Freshman Orientation; this will remove the need for creating a committee with a two-month function.

Freshman Council has two main purposes: providing an organizational basis for freshman participation in Field Day and developing politicians. This year's Freshman Council broke records for Beaver Pin sales. A Freshman Leadership Conference was conducted February 20, just before election and committee formation.

The FCC has made a few suggestions for the future. They are: a) organization of registration, with a minimum of speeches and a minimum of distributed material; b) elimination of the psychological test; and c) elimination of the mixer.

For the Student Committee on Educational Policy, 1964-1965 has been a year marked by considerable expansion of committee operation in all areas of academic activity.

An evening program in summer humanities was established last year on a pilot basis at the request of SCEP, working with the School of Humanities and Social Sciences. Final arrangements are currently being completed for this year's program.

A revitalized freshman tutoring program based on the principle of decentralization was set up for the fall term 1964. SCEP's role in this program included arranging meetings between course heads and tutors.

Working again with the School of Humanities and Social Sciences, SCEP has set up a group of six seminars in the areas of humanities and social sciences for this spring term. The seminar will consist of a faculty member visiting a living group for dinner and two evening meetings over a three-week period. Burton House, Baker House, Senior House, Sigma Alpha Mu, Phi Mu Delta, and Pi Lambda Phi are the six living groups participating in this program.

A detailed year-long study of feedback in the classroom has recently been completed. The basic conclusion was that feedback should play a larger part in the teaching process at MIT. Presently, the results of the study are being discussed with faculty members.

Overseas work located by FOC

The goal of the Foreign Opportunities Committee is to make available alternatives to a hurried European tour or a transplant type of junior year abroad program.

Such opportunities are ones that provide insight into and appreciation of foreign attitudes that should follow a trip abroad. One very attractive approach for the MIT student involves foreign summer technical work; language requirements are not severe, technical experience is not forfeited, and academic work is not interrupted.

In cooperation with the placement office, the FOC placed a trial group of 20 students last summer, with excellent results. Both graduates and undergraduates participated. A second, slightly larger, group has been placed for this year. Some of the countries to which students have been sent are France, Germany, Sweden, and England.

The FOC has been working with Prof. John Norton, Institute Foreign Study Advisor, on study year possibilities.

National clubs unite under ISC auspices

The International Students Council serves as the superstructure of the national clubs at MIT.

A conference at Endicott House was held for foreign freshmen. Among the speakers were Prof. Chalmers, Prof. Baumann, and Bill Samuels, UAP.

Relevant information regarding employment is being circulated through the employment officer and Mr. Harrison of the Placement Office.

ISC is working on other projects, including a translating service, enlarging the ISC Booklet for incoming students, and investigating the possibility of an International House.

PRC plans Yellow Pages

This past year has been one of total revision and expansion for the Public Relations Committee.

PRC is working on the Yellow Pages of MIT, which will contain temporary and permanent information, including activity leaders, class officers, deans and their functions, and comprehensive information about school and local publicity channels. Copies of the Yellow Pages will be distributed to all living group presidents and activity chairmen.

Renovation of the Social Calendar was deemed an immense success by the committee. Copies of the calendar are distributed to all living groups, including Graduate House and Westgate.

Last year's Freshman Picture Book, compiled by PRC, was a financial and pictorial success. Eighty-five percent of the freshman class was included in the picture book, which made a \$50 profit. The largest monetary investment that PRC handles, the Freshman Picture Book is operated entirely by students every year.

Members of PRC have been working with the administration on rewriting the General Catalogue and This Is MIT. At the moment, these are the most pow-

erful image-improving tools working for MIT.

Among PRC's other functions is making silk screen posters for various Inscomm subcommittees and other organizations.

Subcommittee chairmen elections coming soon

Elections for new subcommittee chairmen are not far off, according to UAP-elect Bill Byrn.

Nominations have already been opened and may be registered with Betty Hendricks in Litchfield Lounge.

The top spots of Finance Board, Secretariat, and the Student Center Committee will be elected first. Byrn and the old Executive Council will submit recommendations to the new Inscomm prior to the vote.

Chairmen of the Student Committee on Educational Policy, Public Relations Committee, Judicial Committee, and Foreign Opportunities Committee will then be elected at the following meeting upon recommendations of the new Executive Council.

Watch The Tech for the exact dates of these meetings.

Open House to be held April 10

This year's Open House, to take place April 10, has gotten off to a good and early start, according to the Open House Committee.

Close contact between the Committee and the faculty has been established. Liaison faculty members have been set up in the various departments and labs. Committee members are in close contact with these liaison and with members of the administration.

Open House Committee is attempting to obtain the cooperation of the honorary societies in the various departments to provide valuable help to the faculty. A \$100 prize will be awarded to the department having the display judged to be indicative of the highest amount of student participation and public interest. The award will be used towards fur-

thering student and faculty relations in the winning department.

Expanded avenues of communication have been established between the Committee and those who will be affected by Open House. It has been made clear that the final responsibility for a successful Open House rests with the faculty; displays and exhibits must be set up and run with their cooperation and initiative.

The Committee reports that the office they have set up in Dean Fasset's office is working out very well. There is constant coverage on their phone and a meeting place.

The next month will be hectic for the Committee as they gather information describing the displays for what they expect will be a very successful Open House 1965.

College World

'Sceptre' rides again—at Holyoke; Anti-necking bill under consideration

By Jeff Trimmer

Last week's College World reported the existence of an apparently sinister organization, "Sceptre," at Smith College for providing dates for the young ladies of the campus with suitable counterparts at Dartmouth College. Further research indicated that "Sceptre" was not so sinister at all, but the exact extent of the organization was not known.

A note in The Mount Holyoke News brings further information. The article reports that the organization is in existence on that campus and indicates more of the exact nature of the organization. Robert L. Ruxin, a sophomore at Dartmouth and one of the founders, explained that "if a man wants a date for a specific weekend, he need only see us within eight days prior, and we will set him up with a girl meeting the physical specifications (height, weight, hair color) he desires." There's only one thing for the girls of Mt. Holyoke: the article did not know who the representative of "Sceptre" was on the Holyoke campus. Sounds like a sub rosa group.

No neck bill

Though reports had preceded it, The Minnesota Daily, newspaper of the University of Minnesota, reported on a proposed anti-necking bill now being considered in the legislature. The simple, one page bill says "any person who, while a passenger in a motor vehicle puts his or her arm around the driver, or any driver of such a vehicle who puts his or her arm around any passenger while such motor vehicle is in motion is guilty of a misdemeanor."

The Daily goes on to report that two years ago when the bill was under consideration, it read it was illegal for a driver to put his arms around the passenger while the passenger was in motion.

Lobe probing at Antioch

Ear-piercing is a growing sport around the country according to a report in the Antioch College Record. Many girls are having it done informally by friends rather than in the traditional manner, in a clinic by a physician.

Implements for the operation generally include ice cubes, a sewing needle, and a cork. The operation is performed by placing the ice cubes behind the ear lobe until it is numb from the cold. The needle is then pushed through the ear lobe into a cork behind the ear. After the hole is made, the needle is removed and replaced with a 14-karat gold stud. This is the most delicate part of the operation. Since the hole is quite small, forcing the stud through the ear is sometimes difficult.

One of the key aspects must be sanitation. The ear must constantly be swabbed with alcohol, and in the days the girl must wash her ears with alcohol to lessen the dangers of infection and promote healing. It is this

SPIRE donated to Smithsonian Inst.

The Instrumentation Laboratory has given its 1½ ton SP IRE (Space Inertial Reference Earth) guidance device to the Smithsonian Institution.

On February 8, 1953, Professor Charles S. Draper, '26, Roger B. Woodbury, '48, and others involved in SPIRE's development took off with it in a B-29 from Boston to see if it could fly them to Los Angeles. At 10,000 feet, Pilot Charles L. Collins turned the ship over to SPIRE and it took them along a great circle route to McCook, Nebraska. There, Collins partially took charge again to get the plane up to 20,000 feet.

item of infestation that causes doctors to take a dim view of the home-style operation. The article reports that doctors at the Clinic at Antioch College feel that it is imperative that the operation be done under strictly sterile conditions by a physician.

But the reduced cost and the relative safety providing adequate sanitary precautions are taken make the dorm sport relatively attractive. The Antioch article reports that "in the dorms the operation takes on the atmosphere of a religious ceremony or a circus side show. The room is often crowded with friends, hall-mates, and interested onlookers who come to watch and offer reassurance."

Caltech Notes

A report from Caltech speaks of the problems the University of Chicago had with its old and historic 500-ton atom smasher. It seems that Chicago got a new,

1965 model, 540-million-volt betatron and they don't take trade-ins. What to do with the old one? The university advertised in the Chicago papers: "For Sale: 100 Million Volt Betatron. . ." All this for a paltry \$100,000, and the university claims it is worth at least 10 times that much.

February What?

For the last note from the Georgia Tech Technique: "The Student Council has long been noted for its independence of action and opinion. However, we feel that they have overreached themselves in this quarter's calendar by doing away with February 9 in favor of another February 2. Ask your friendly neighborhood representative what's so good about February 2. If you find out, let us know." It might be mentioned also that the Student Council at Georgia Tech also moved Valentine's day up to February 7.

Electric clock studies in progress; RLE works to improve stability

(Continued from Page 7)

for comparison with cesium and hydrogen atomic clocks is also in progress. A promising device is the two cavity ammonia maser which overcomes some of the inherent difficulties of the single cavity maser. The origin of certain frequency dependences is currently being investigated.

A cesium clock of moderate length incorporating a number of novel features is in development. Every effort is being made to control and minimize the known sources of frequency instability, according to Prof. G. G. Harvey.

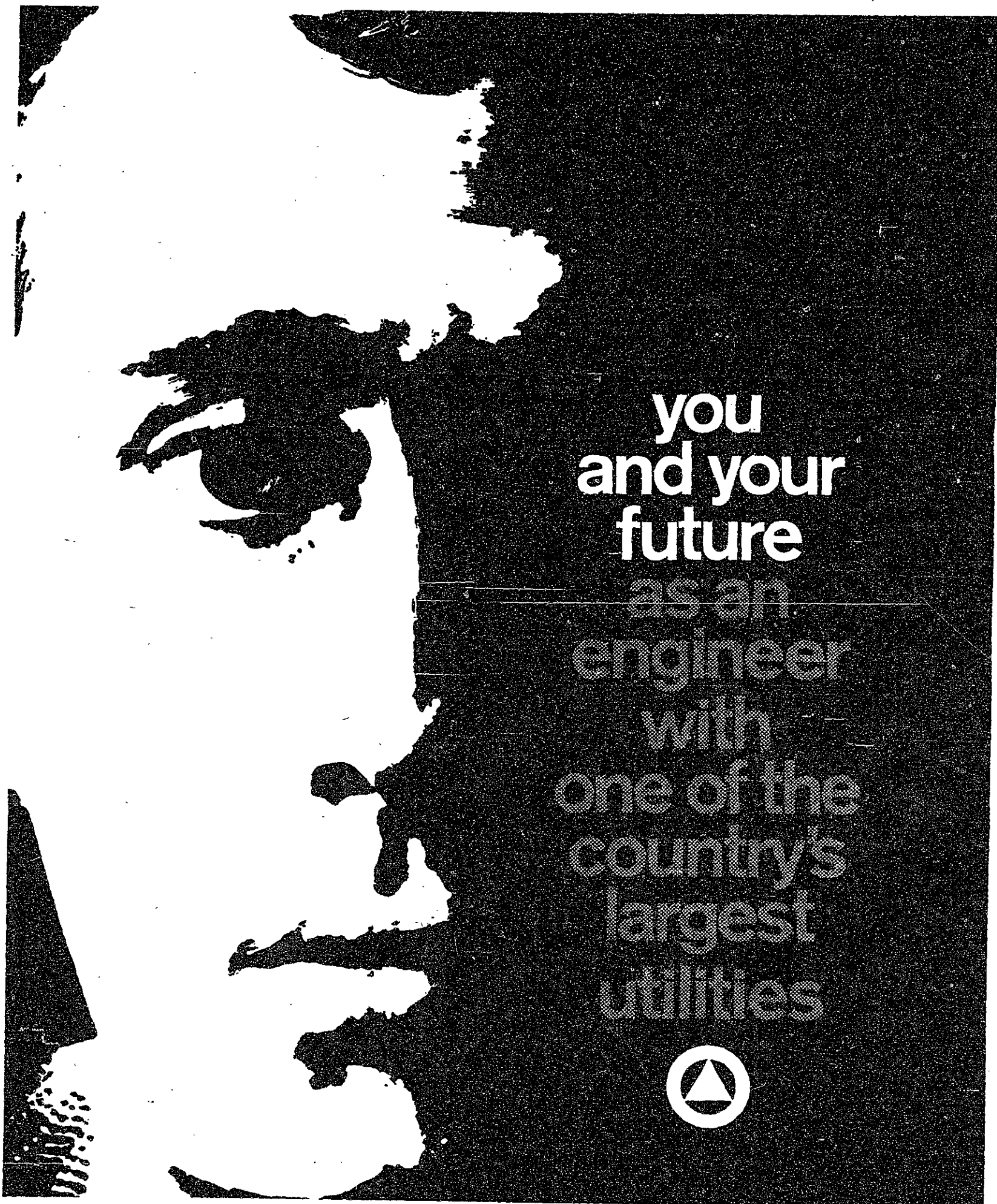
The electronics required to generate frequencies and lock them to resonances has been extensively improved and has made possible a factor of 10 improvement in the inter-comparison of commercial atomic clocks to the point where their temperature and magnetic field dependence are now the dominant effects. Meaningful criteria of stability, and tech-

niques to measure this stability are also being investigated.

Microwave spectroscopy

The work of Prof. M. W. Strandberg and Prof. R. L. Kyhl in the microwave spectroscopy group was principally concerned with paramagnetic resonance phenomena studied with electromagnetic radiation and the properties of metals studied with both hypersonic and electromagnetic waves. The techniques for using microwave ultrasonics have been developed both here and elsewhere to the point where these high frequency sound waves have become useful for probing the electronic properties of metals.

Sponsorship for this research is provided largely by the Joint Services Electronics Program of the Army, Navy, and Air Force and by the Atomic Energy Commission, the National Science Foundation, the National Institutes of Health and the National Aeronautics and Space Administration.



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■ Interviewer on campus: **March 12.**

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Former President Juscelino Kubitschek of Brazil spoke here last Wednesday evening. Holding office from 1955 to 1961, Dr. Kubitschek began construction of the new capital, Brasilia.

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drama at mit . . .

'You Gotta Have Art' is a hilarious success

By Mona Dickson

Rave notices notwithstanding, this year's Tech Show is a riot. Set in the Florence of the Italian Renaissance, 'You Gotta Have Art' concerns two impoverished students who must raise seventeen hundred florens tuition for the Florence Institute of Arts and Sciences. They arrive at the casa of that patron of the arts, Signore Luigi Medici, seeking a sponsor, only to be mistaken for professors from the Institute. They are hired as tutors for the eight Medici children and the fun begins. For the next two hours everything from the Institute to Goldwater gets battered amid an interesting mixture of the fifteenth and twentieth centuries.

Tech Show has always been plagued by lack of practice time. This year's production is no exception; the music and script were finished a mere two weeks ago and final changes in the choreography appeared five days before opening night. But, unlike previous years, the performers have not let unfamiliarity ruin their presentation.

Several actors threaten to steal the show from each other. A detailed description of their talents would fill too many inches, but the most outstanding deserve mention. David Fan, as the Foo Man Chou alchemist Tetraxini, again proves his ability to use every prop, every gesture to present his role. With his black goatee and flowing cape, he presents a fascinating caricature of science and evil.

Constance Miller is well known to anyone familiar with the Gilbert and Sullivan Society. In her usual professional manner she plays the ideal Italian mother, complete with barbed tongue and fast temper.

Linda Sheldon, as the maid in love with Pledacello, makes her part a major one, even though it was probably not written as such. Her expressions and gestures are

Tech Show '65 presents **YOU GOTTA HAVE ART**: Book by Jeffrey Meldman, Lyrics by Deloss Brown, David Fan, and Jeffrey Meldman, Music by Fred Pahl and Leonard Pousner, Directed by Jeffrey Meldman, Orchestrations by Robert Beckwith, Set Design by John Rylaarsdam, Costumes by John Leide, Lighting by Alan Hirsch, Choreography by Lora Chase, Starring John Sowle as Protomoni, Larry King as Pledacello, David Fan as Tetraxini, Alan Friedman as Pappa Medici, Constance Miller as Manna Medici, Annetta Labourene as Rosa Medici, Norman Rubin as Boccereili Medici, Linda Sheldon as Gina, Janina Marini as Teresa Pulcinelli, Clay MacDonald as the servant, Deloss Brown as Signor Pulcinelli, Diane Vagramian as Signora Pulcinelli, Bernie Simmons as Kazali, Linda Schwartz, Susan Schuman, Barbara Soloway, Betty Rose, Connie Abramson, and Joni Somers as Rosa's sisters; at Kresge Auditorium, March 18, 19 and 20 at 8:30 p.m.

almost as good as Fan's.

John Sowle and Larry King are the students, determined to enter the Institute so that their fortunes will be assured. Their best scene is the painting of a replacement for one of Medici's masterpieces that Tetraxini stole in revenge for being dismissed as tutor. (The entire plot is even more complicated.) The original "Bontacessa" is a piece of pop art that true connoisseurs would love but the student's version looks unusually like a certain Da Vinci painting, hideous to the practiced eyes of the Medici's.

Every farce must have its buffoon and Norman Rubin fits the part beautifully. With his jewel encrusted globe of the nine spheres and his two-foot shoes, he would bring a laugh just standing on the stage.

drama at mit . . .

Ibsen play at Hotel Bostonian

'WHEN WE DEAD AWAKEN' by Henrik Ibsen; Directed by David Wheeler; Cast: Rubek, Richard Shepard; Maja, Janet Lee Parker; Irene, Bronia Stefan; Ulfhejm, Paul Benedict; Hotel Manager, Jerome Gershman; Lars, Geoffrey Richon; A Nun, Louise Sargent; Produced by the Theatre Company at the Hotel Bostonian.

By Norm Wagoner

Unlike Teshigahara's "Woman In The Dunes" (reviewed in this column last week without name or meaning), Ibsen's "When We Dead Awaken," now playing at the Hotel Bostonian, is dispirited. Written in 1899, this play comes as a somber conclusion to Ibsen's long career as poet-dramatist, naturalist, social critic, psychologist.

"When We Dead Awaken" revolves around a sculptor named Rubek who has formed himself into an idolater rather than an artist. Worshiping an Aesthetics which is cold and abstract, avoiding passion toward it or the people whom he uses for it, Rubek has "locked himself into a box," dead. He is like a run-down Peer Gynt who has fled from reality into illusion.

With dramatic exposition which extends right to the end of the play, Ibsen reveals Rubek's past "episode" with Irene, now insane, who was Rubek's model for his "Resurrection," a tableau of figures half-emergent from the earth, suspended between life and death. Irene idealized their platonic affair to the point where she had to leave him, now thinks herself dead, and walks about enshrouded in white.

Afterwards, Rubek married Maja, with her expecting him to give her glory and show her the world. Not only did he fail at this, but he seems to have rejected her, so that in the first act she is bitterly sardonic. But when she meets Ulfhejm, a lively woodsman, she bounces around like a little girl who has a chance to "show" her guardian, pique his interest, and have a good time as well. At least, she emerges from the play more alive than either Rubek or Irene. As perhaps inevitable for all Romantics, Rubek and Irene Collapse in their own style of Death Swoon at the end.

"When We Dead Awaken" is a study in psychopathology which indicts much of the degenerate romanticism of Ibsen's day. The play condemns any Art which divorces itself from reality (Art for Art's Sake) as irredeemably dead; thus the heavy irony in the poetry of the title.

David Wheeler's production sus-

tains an eeriness which pervades all of the characters and matches the mood of Rubek's tableau. This sense extends even into the anti-climax, which might have been cut, following a very startling climax. The anti-climax seems ridiculous, as if Ibsen could not resist a final stroke a la Strindberg.

Richard Shepard's Rubek displays fine sensitivity and far transcends Ibsen's stereotype. Janet Lee Parker forces her role as Maja—appropriately to a degree—although she might be fresher during the beginning. As Irene, Bronia Stefan lacks the withdrawn, unearthly beauty which would have intrigued Rubek. She appears too hearty and too healthy; but this incongruity does evoke a certain pathos which is suitable to the role.

Paul Benedict's woodsman, Ulfhejm, is not like the standard woodsman: his woodsman does not say "To Hell!" but wheezes "To hell, hmmm." This succeeds, although Ulfhejm might be more robust to offset the others; such wry complexity does add to the general mood. But the mountain landscape of the setting does not—it is colorful yet not distant and solemn enough.

Mr. Wheeler's production generally is quite competent; if you admire Ibsen, and you should, you will find an evening with the Theatre Company very worthwhile.

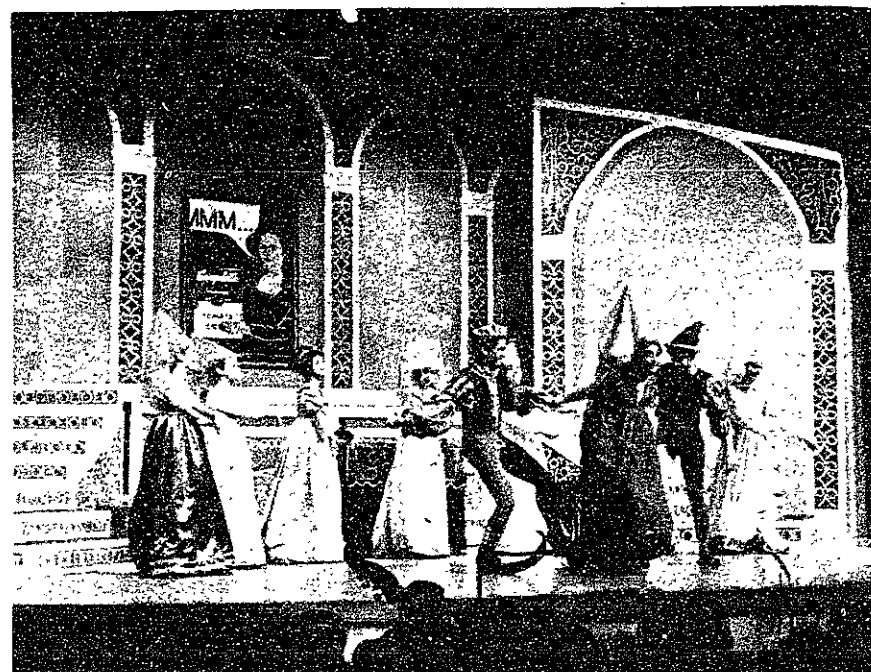


Photo by John Torode

This is but one of the delightful scenes you will encounter at this year's Tech Show 'You Gotta Have Art.' Who says M.I.T. is a place for uncouth, ill-cultured tools, with no originality?

The costumes, besides providing the proper setting for this farce, are specifically designed for the parts. Most of the girls couldn't handle their trains, and it is surprising that the men agreed to wear their tights, but even so the costumes add immensely to the performance.

The music is no less suited to the show. A strange balance between strings, reeds, French horns and a harpsichord provides the right mellow support for the singers, besides promoting

a Renaissance mood. The overture may be a bit lengthy; but an interesting theme and excellent orchestration make it worth listening to. Nowhere does the orchestration drown out the singing, a difficult accomplishment in Kresge.

Taken as a whole, or in part, 'You Gotta Have Art' is a laugh a minute. It is no wonder the cast has done such a fine job; they must enjoy every minute of it.



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March 16-17). Shows daily
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Sat. and Sun. at 3:30.

BRATTLE SQ. TR 6-4226

Billy Wilder's "Kiss Me,
Stupid," 1:35, 5:25, 9:20;
Sam Fuller's "The Naked
Kiss," 3:50 and 7:45.
Sun.-Mon.-Tues.: The Ingmar
Bergman Trilogy, "Through a
Glass Darkly," 2:00 and 7:00;
"Winter Light," 3:40 and 8:35;
"The Silence," 5:00 and 10:00.



PETE SEEGER

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movies...

New Sinatra hit at Paramount

By Eric Goldner

"None But the Brave," a cross between a war story and "Lord of the Flies," is the story of a party of American soldiers and a party of Japanese soldiers, both marooned on an uncharted island in the Pacific. On discovering each other's presence they quite naturally set out to do the logical thing, i.e. kill each other. The ways in which they go about this show very clearly, if not subtly, the parallels in the two camps.

In the American group we find Clint Walker, the Air Corps Captain who has wangled the command of a group of Marines from its lieutenant, who is played by Tommy Sands of all people. The captain is a rational beast, using logic and planning in his attacks on the Japanese. The young lieutenant, of course, is greener than grass, and over-eager to the point of being a caricature of himself. Then there is Frank Sinatra, the

'NONE BUT THE BRAVE' Produced by Frank Sinatra; Directed by Frank Sinatra; Starring Frank Sinatra, Clint Walker, and Tommy Sands; Now playing at Paramount Theatre along with 'Make Mine a Million'.

drinking medic, — not very important to the theme of the movie, but a nice guy.

The Japanese captain is a friendly sort of fellow, too. He has the blood of the Samurai in his veins but is really too soft-hearted for killing. He has a second-in-command who is very eager for battle and who thinks his commander should love combat more than he does.

In both cases the rebellious seconds-in-command disobey orders which they think too tame and lose a few men, but it doesn't bother them much.

The theme of the movie is of course a protest against war. This is evident as soon as it is shown that the Japanese are human beings. This type of theme is hacked out about eight million times a year in movies, books, and everything else. But in this case it is done well. The two commanders, deciding that killing each other off is not doing either of them very much good, and considering their present isolated situation, resolve to form a truce. And so it is done. The Americans and Japanese help each other out, save each other's lives, trade, and generally get along like old buddies.

This of course can not go on forever. One day the Americans rebuild their wrecked radio and succeed in calling a battleship to rescue them. Then all the softened, friendly soldiers must part company to wage war again. But can they? Can they kill their good

friends whom they have grown to love?

They most certainly can.

It all happens like a Shakespearean tragedy. The audience knows what must eventually happen. The Americans must eventually contact their main force (they've got a radio, the Japanese have not.) The Japanese think too much of their honor as soldiers to surrender. The whole story is so very sad.

In spots the movie is a bit overdone. The character of the lieutenant, for example, (Tommy Sands) is a little too much. I am not sure whether this is due to overacting, overdirecting, or the script, but he is a character out of Mad Magazine. The other characters tend toward being slightly one-dimensional, but are fairly well-developed generally. Frank Sinatra and Clint Walker are good in their parts, which is to be expected. The acting of the Japanese players is uniformly excellent.

The verdict on "None But the Brave" is favorable. In many places it is not on the highest intellectual level, such as at the very end, when the words "nobody ever wins" flash on the screen. This gives the audience credit for a lot of brain, as this is what was being said for the past two hours. In some spots the dialogue is a bit hack. But in general the movie is quite exciting, and it is always entertaining. It should be enjoyed by anyone who does not absolutely despise anything resembling a war story. It is definitely not the usual type of war movie, and it is certainly more than just a war movie.

The second feature at the Paramount is "Make Mine a Million," an enjoyable British farce. If you want to leave in a jovial mood, stay and see it.

LSC to present George Gamow, noted cosmologist and author

The Lecture Series Committee will present George Gamow, noted physicist and author, March 17 at 8:30 p.m., in Kresge Auditorium.

Dr. Gamow, professor of physics at the University of Colorado, was awarded the 1956 Kalinga Prize (UNESCO) for his outstanding contributions in interpreting science for the general public.

Dr. Gamow's books include *One, Two, Three . . . Infinity* and *The Birth and Death of the Sun*.

His lecture will be entitled "Cosmic Dispute" and will explain present theories concerning the origins of the universe.

Coming LSC lecturers are Harry Golden on April 14 and Jules Feiffer on May 13.

Movie Schedule

BEACON HILL — "How to Murder your Wife," 3:30, 5:45, 8:00, 10:00. Sun. at 1:00, 3:05, 5:15, 7:30, 9:45.

BOSTON CINERAMA — "The Greatest Story Ever Told," 8:00. Sun. at 7:30. Mat. at 2:00.

BRATTLE — "Jules and Jim," W-Th: "Breathless," F-Sat.; "Hiroshima Mon Amour," Sun-M; "Last Year at Marienbad," T-W., 5:30, 7:30, 9:30. Mat. Sat. & Sun. at 3:30.

CAPRI — "Zorba the Great," 11:15, 1:50, 4:25, 7:00, 9:30.

CENTER — "Black Torment," and "The Brak." 8:30.

CINEMA, KENMORE SQUARE — "Marriage Italian Style," 2:10, 4:00, 5:50, 7:40, 9:30.

EXETER — "World Without Sun," 2:15, 4:05, 5:50, 7:40, 9:30. "Churchill's Funeral — A Nation's Homage," 2:00, 3:45, 5:35, 7:20, 9:10.

FINE ARTS — "Julius Caesar," and "A Night at the Opera," 1:30, 5:00, 8:30.

GARY — "Mary Poppins," 11:30, 2:00, 4:30, 7:00, 9:30.

HARVARD SQUARE — "Kiss Me, Stupid," 1:35, 5:25, 9:25; "The Naked Kiss," 3:50, 7:45 Sun-Tues: "Through a Glass Darkly," 2:00, 7:00, "Winter Light," 3:40, 8:35, "The Silence," 5:00, 10:00.

KEITH MEMORIAL — "Strange Bedfellows," and "Taggart," 2:40, 6:10, 9:35.

LOEW'S ORPHEUM — "Hush Hush, Sweet Charlotte," 10:00, 12:50, 3:45, 6:35, 9:25.

MAYFLOWER — "Longest Day," no times.

MUSIC HALL — "Goldfinger," 10:00, 12:00, 2:00, 4:00, 6:00, 8:00, 10:00.

PARAMOUNT — "None but the Brave," and "Make Mine a Million," 1:10, 4:35, 8:00.

PARIS — "Nothing but a Man," 1:30, 3:10, 4:50, 6:40, 8:15, 10:00.

PARK SQUARE CINEMA — "Marriage Italian Style," 2:10, 4:00, 5:50, 7:40, 9:30.

SAXON — "My Fair Lady," 8:30. Sun. at 7:30. Mat. at 2:00.

UPTON — "Peyton Place," and "The Hustler," 11:00, 4:00, 9:30, 10 min. later Fri.-Sat., Sun. no 11:00 showing.

WEST END CINEMA — "Love a la Carte," 11:30, 1:30, 5:30, 7:30, 9:30.

Theatres

CHARLES PLAYHOUSE — "The Plough and the Stars," 8:30. Sun. 3:00 and 7:30, Sat. 5:30 and 9:00.

COLONIAL — "Half a Sixpence," 8:30. Mat. Th., Sat. 2:15.

SHUBERT — "The Roar of the Greasepaint, the Smell of the Crowd," 8:30, Th.-Sat. 2:30 mat.

THEATRE COMPANY OF BOSTON — "Funny House of a Negro," and "Charlie," 8:30.

WILBUR — "Dear Me, the Sky is Falling," 8:30. Mat. Th., Sat. 2:15.

Two One-Act Plays

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Boston Theatre Co. announces last plays

Two kinds of modern theatre will be presented by the Theatre Company of Boston starting Thursday night, March 11, at 7:30 in the Hotel Bostonian Playhouse — Adrienne Kennedy's "Funny House of a Negro" and Slawomir Mrozek's "Charlie." Both of these plays, under the direction of David Wheeler, are being produced for the first time in Boston. Reservations for the performances may be made by calling KE 6-2521.

These plays will be the Company's last production of the season.

Making the Scene

S	M	T	W	T	F	S
			10	11	12	13
14	15	16	17	18	19	20
21	22	23	24			

THIS WEEK

MUSIC

New England Conservatory — Concert of works by Aaron Copland, conducted by the composer, March 10, 8:30 pm in Jordan Hall; admission free.

Boston Opera — Offenbach's Tales of Hoffman, March 10 and 12 at the Back Bay Theatre.

The Thirsty Ear — St. Patrick's Supper, Friday March 12, 8:30 pm. Cover — 25c per ear. M.I.T. Graduate House Pub.

Celebrity Series — Julian Bream, British guitarist-utenist; Saturday evening March 13; Jordan Hall; admission by series ticket only.

The Thirsty Ear — The Argonauts — Rock 'n Roll dancing, Saturday, March 13, 8:30 pm. Cover 37 1/2c per ear. M.I.T. Graduate House Pub, 305 Memorial Drive.

M.I.T. Glee Club — Concert by the Glee Club and the Voorhees Chapel Choir under the direction of Prof. Klaus Liepmann, March 14, 3 pm, Kresge Auditorium.

Boston Symphony Chamber Players — Concert, March 14, 8:30 p.m.; works by Mozart, Fine, Piston, and Spohr; Sanders Theatre, Cambridge.

M.I.T. Organ Series — Concert by Piet Kee, March 16, 8:30 p.m., Kresge Auditorium.

Boston University Faculty Recital — Roman Totenberg, violin; March 16, 8:30 p.m., Boston University Concert Hall. Admission free.

LECTURE
International Student Association — "South Africa Today," Nathaniel Nakasa, Harvard; March 14, 8 p.m. "A Soviet Student Views Elections: the U.S. and U.S.S.R.," Boris Netrebeky, Harvard; March 17, 8 p.m. Brandeis University — "The Place and Future of Extremism in America," Max Lerner, Brandeis; March 18; Olin-Sang American Civilization Center. Admission \$1.00.

MISCELLANEOUS
Tech Show — "You Gotta Have Art," March 11, 12, 13; 8:30 p.m., Kresge.

NEXT WEEK

MUSIC

Boston Symphony Orchestra String Quartet — concert March 19, 8:30 pm, Jordan Hall. Admission by Series ticket only.

M.I.T. Chapel Organ Series — Carol Foster from Andover Mass., March 21; admission free.

Boston Opera — "Boris Godunov" by Mussorgsky; March 24 and 26; admission by series ticket only.

LECTURE

LSC Lecture — George Gamow, March 18, 8:00 pm; Kresge Auditorium; admission free.

Ford Hall Forum — Dr. Edward R. Annis debating Dean Charles I. Scotland on Medicare; March 21, 8:00 pm; Jordan Hall; admission free.

Brandeis University — "Racism and Extreme Civil Rights," Thomas Pettigrew; March 23; Olin-Sang Center; admission \$1.00.

MISCELLANEOUS

Tech Show — "You Gotta Have Art," March 18, 19, 20; 8:30 pm in Kresge Auditorium.

LSC Movie "Bells Are Ringing," March 19 at 7:00 and 9:30 pm; Room 26-100. Admission 50c.

LSC Movie — "Seven Brides for Seven Brothers," March 20 at 7:00 and 9:30 pm; room 26-100.

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IM rifle team matches scheduled; Riflemen under 21 need permit

Intramural rifle competition this year will be held on two consecutive weekends in early April announced IM rifle manager Dan Corwin. '67. On the first weekend an elimination round will be held; the top 20% of the teams then shooting in the finals the next week. Teams in the competition will consist of four men, each man firing a total of twenty match shots in the prone position. All equipment will be furnished for the match; however, shooters who wish to use their own equipment may do so if they have it cleared with Corwin. This year, all shooters under 21 will be required to have signed parental permission in order to compete.

Graduate crew begins workouts; Four meets planned for season

On March 1, the Graduate Crew hit the water to begin practice for its second spring season. The spring meets are as follows: April 3: St. John's, Fordham, and B.U. at Olympic Course, Long Island. April 10: Clark and Holy Cross at Worcester. April 24: Amherst, American International, and B.U. at Amherst. May 1: Dartmouth Lightweights at Hanover. The crews to be raced are all undergraduate varsities, since there are no other graduate crews near Boston. Captain Chuck Wilbur is arranging a race for the 17th of April with a crew in the Boston area. The Graduate Crew is the only intercollegiate team at MIT composed entirely of graduate students. Oarsman Bill Johnson says, "With six of last year's oarsmen returning this season, and with an established organization, we should do much better this year. Now, for the first time, we'll have coaching on a regular basis, and that will also help." The crew still needs oarsmen and coxswains. Interested persons should contact Mel Platte, x3552, Ralph Kopperman x4995.

Intramural Results

Volleyball
Burton 2A over AEPI 15-3, 15-10
TDC over Grad Management
by forfeit
Burton A by forfeit over Baker A
SPE C over Burton 4B, 15-3, 15-11
PDT A over Burton 4A 11-15,
15-12, 15-7
Burton Conner 3A over Old Lamb
Chops 15-6, 15-11
Holman Omega over Chi Phi B
15-10, 15-10
Burton 5B over Walker Student
Staff 15-6, 15-4
PKS over Baker E 15-8, 15-9
Chi Phi A over SAM B 15-3, 15-7
Burton Conner 4 over SAM 15-7,
15-5
SAE A over PSK 15-12, 15-11
SPE C over Chi Phi B 15-6, 15-10
Old Lamb Chops over Holman
Omega 15-6, 15-13

Badminton
Lambda Chi Alpha 3, Burton D 2
Lambda Chi Alpha 5, PMD B 0
Sigma Alpha Epsilon 5, Baker D 0
SAE 4, Phi Mu Delta B 1

Hockey
Championship game:
NRSA 3, Theta Chi 2

JV ski team closes season with tourney

Although poor snow conditions cancelled the last two meets, the MIT Junior Varsity ski team completed a fairly successful season behind the able coaching of Jens Jorgensen.

The team competed in a slalom and giant slalom race at Bethel, Maine, on Feb. 20-21. Led by Junior Pete Lehman's 9th and Sophomore Dave Dilling's 14th, the team placed fifth behind Windham, Nasson, Princeton, and Harvard. MIT's best time in the grand slalom was turned in by Tom Needham '68 with a 70.9.

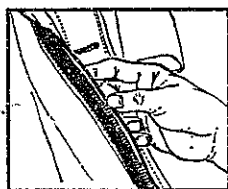
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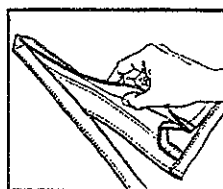
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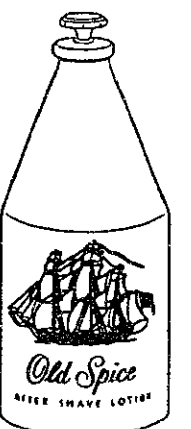
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IM volleyball in final week; playoffs begin Tuesday

By Jerrold M. Sabath

With intra-mural volleyball entering the final week of competition, many births in the playoffs are still up in the air. It is in this respect that many of this week's games will be very crucial.

The playoffs are scheduled to begin next Tuesday, March 16, and the finals will come about a week later. As usual, Club Mediterranean is a strong favorite to take top honors, as they have been victorious in each of the past seven years.

Major Leagues

League A	
Club Mediterranean	4-0
Beta Theta Phi	3-1
Senior House A	2-2
Burton Connor 2A	2-2
Theta Chi A	1-3
Phi Delta Theta B	0-4
League B	
Sigma Phi Epsilon	4-0
Phi Kappa Theta	3-1
Alpha Epsilon Pi	2-2
Meteorology Club	1-3
Burton 2A	1-3
Burton 3	1-3
League C	
Chinese Students Club	4-0
Lambda Chi Alpha A	3-1
Zeta Beta Tau A	2-2
Tau Epsilon Phi	2-2
Club Latino	1-3
Burton Fine 5A	0-4
League D	
Phi Sigma Kappa A	3-0
Sigma Alpha Mu A	3-0

Sigma Alpha Epsilon A	1-1
Phi Gamma Delta	1-2
Senior House HJB	0-2
Burton Connor 4	0-3
League E	
Baker A	3-0
Burton A	3-0
Graph. Management Soc.	1-2
Theta Delta Chi A	1-2
Burton 4A	1-2
Phi Delta Theta A	0-3
Minor Leagues	
League 1	
Baker B	3-0
Burton 2B	3-1
League 2	
Baker C	4-0
Theta Delta Chi B	3-1
League 3	
Delta Kappa Epsilon	4-0
Bemis	2-1
Theta Xi	2-1
League 4	
Senior House Holman	3-0
East Campus Club 414	2-1
League 5	
Burton Fine 5B	3-0
Phi Kappa Sigma	2-1
Walker Student Staff	2-1
League 6	
Old Lamb Chops	2-0
Burton Connor 3A	2-1
League 7	
Zeta Beta Tau B	3-0
East Campus Munroe 3	1-1
League 8	
Alpha Tau Omega	2-0
Baker D	2-0

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NRSA downs Theta Chi for IM hockey title; Rennison goal in final minute deciding factor

By Jack Seaquist

A goal by Walter Rennison with one minute left to play proved to be the deciding factor for NRSA as they narrowly edged Theta Chi 3-2 for the IM Hockey championship last Tuesday night.

Although the winners had to come from behind in the closing moments of the game to gain the victory, they were the ones who actually began the scoring. It was Steve Croopnick who put the first notch on the scoreboard although

NRSA had one man in the penalty box.

Theta Chi ahead 2-1

However, Theta Chi, embarrassed over the first goal, first tied the game up with a goal by Bill Jessiman '63 and then going ahead 2-1 by way of a goal from Mike Grea '63, with both coming early in the third period.

Not to be outdone and with time working against them, NRSA evened the count with a goal by Joe Adolph '66 with but four minutes to go in the game. The outcome was not long awaited as Rennison broke away three minutes later and notched the final tally.

Bridge team defeats UMass doubly, 8-3

The MIT Bridge Team preserved its perfect record with an 8-3 victory over a visiting team from the University of Massachusetts. This particular match was doubly important to MIT because it is inconvenient for the Boston area teams to reciprocate and go to UMass, so that each UMass match counts as two. This triumph brings the MIT record to 4-0. UMass ended its season at 4-4.

The match was very close throughout and the difference was determined on but two of the twenty-four hands. The M.I.T. first team of Art Bushkin '65, captain, Bob Lurie '66, John Hrones '68, and Don Peterson '68 was held even by the steady UMass number one foursome. However, an outstanding showing by the MIT second team of Paul Berger '64, Ben Feinswog '64, Dick Friedman '65, and Barnet Wolff '65 provided the winning margin.

The winner of the New England Championship probably will not be decided until last match of season, April 18, when MIT hosts an also unbeaten Harvard squad.

The NRSA victory put them in first place and Theta Chi in second in the overall standings. Lambda Chi Alpha finished third while Phi Gamma Delta and Baker House finished fourth and fifth, respectively.

All-star team announced

In other news of interest, the All Star team was announced last week with NRSA and Theta Chi each placing two on the first string. The team consisted of Al Leslie '65, NRSA; Dennis Buss '64, Lambda Chi Alpha; Mark Hanson '65, Sigma Chi; Phil Smith '65, Theta Chi; Bill Jessiman, Theta Chi; and Walter Rennison, NRSA. The second string was composed of Bob Goldsmith '64, Zeta Beta Tau; Rick Gander '65, Theta Chi; Ben Gikis '66, NRSA; Chuck Greene '67, Zeta Beta Tau; Don Schwanz '66, Phi Gamma Delta; and Mike MacKay '66, Lambda Chi Alpha.

In the MIT Community League Wayne Pechnold was high scorer with twenty points, and was followed by Ed Silver, 15, and Den McLaughlin and Ron Parker with 14 apiece.

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Squashmen finish ninth; Guillermo only winner

Senior Tom Guillermo's first round victory was enough to place MIT ninth out of eighteen teams in the national collegiate squash championships at Philadelphia. After defeating a U. of Rochester opponent, he faced Larry O'Loughlin of Pittsburgh, whose hard shots gave Pitt a 3-0 victory.

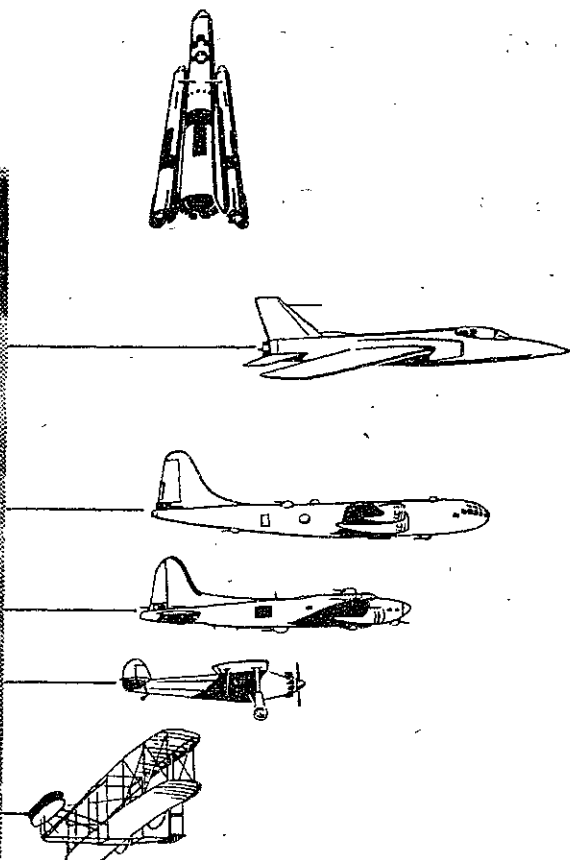
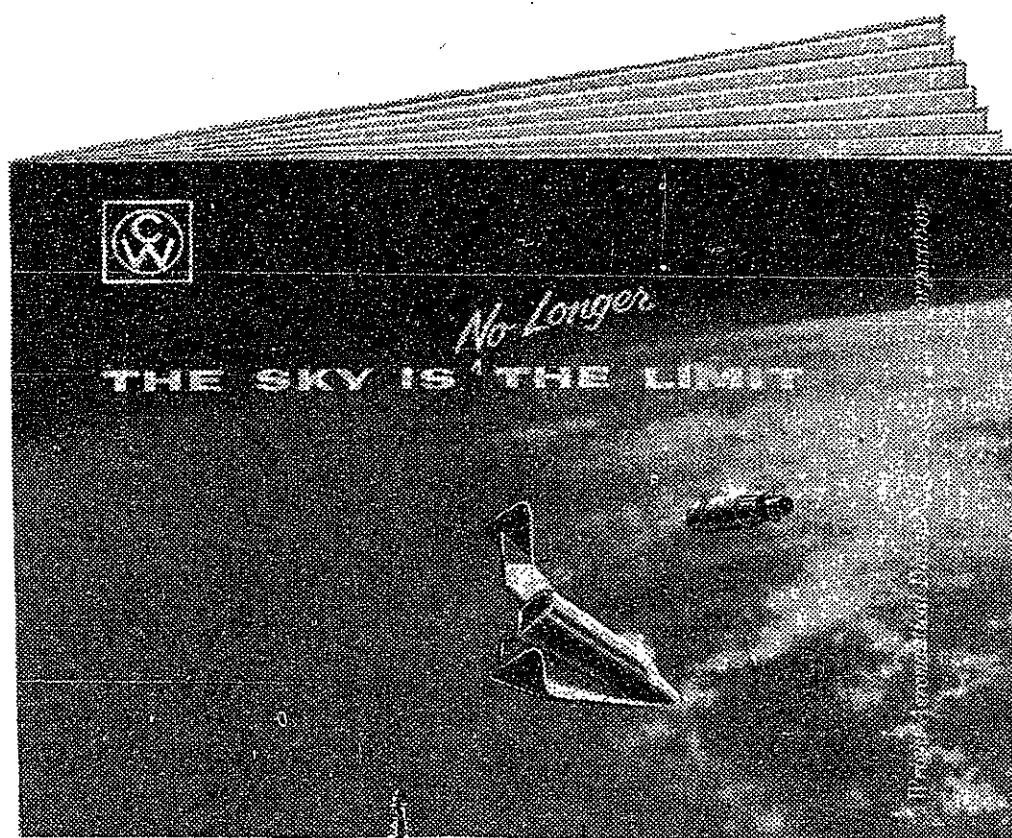
Tom Gomersal '66 was eliminated in the first round by All-American Mike Annison of Williams. Pete Alcaly, Amherst third man, defeated Wayne Wilner '65 while Al Dinner '66 drew a bye. Dinner was beaten in the second round 3-1 by Army ace Tom Genoni. Ailing Don Ward '65, Ted Cruise '65, and Ken Comey '65 could not make the trip. Through the quarterfinals, Penn maintains a slight lead of Harvard and Army.

Larry King '66, out with mononucleosis most of the year, will captain next year's varsity. Bob Hewitt '67 will be manager, and Rusty Silverman '68, will assist him. Tom Gomersal was chosen the season's most improved player and Ted Cruise was the winner of the undergraduate tournament.

Softball play ready; 2 divisions planned

The big intermural sport of the spring season, IM softball, is scheduled to begin play April 10, according to IM softball manager Stuart Vidockler '66. The approximately 40 teams expected to be entered in competition will be divided into leagues of five teams in a major and minor division according to their respective showings last season.

The top two or three teams in each league after the regular season play will play in the division tournaments; which will be on a single elimination basis as last year. A trophy will be awarded to the winner of the major league tournament and IM points will be awarded as in football, with the major league teams getting the majority of the points.



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Fencers second in New Englands; DeBonte, Churinoft take firsts

By Alan Cohen

The MIT fencing team travelled to New York this past weekend to participate in the New England Intercollegiate Championships. They took a respectable second place out of six teams, finishing with 40 points out of a possible 60 as compared to Trinity which took first with 46 points and Harvard which was third with 38.

The MIT squad consisted of Al Stottlemeyer '65 and George Churinoft '67 in foil, Bill DeBonte '65 and Karl Kunz '66 in epee, and Craig Wheeler '65 and Mike Oppenheimer '65 in sabre.

The foil and epee teams each took first place at the New Englands, winning 16 matches apiece. Also individual honors went to Bill DeBonte in epee and George

Churinoft in foil, each taking first place in their events.

However, following the trend of the year, the sabre team was weak, winning only 8 matches, and losing the meet, which MIT has won for the past two straight years. The winning Trinity squad did not take an individual first, but garnered all three seconds.

They did win the team sabre and finished second in the team foils and epee standings. Harvard, having a meet at Yale, could only send their second team; otherwise, the standings may have been different.

This Saturday, the fencers will compete in their final competition, the Intercollegiate Fencing meet at Columbia.

Frosh sports

Swimmers breeze; matmen victorious

By John Kopolow

Last week frosh mermen swam to an easy 61-34 victory over the University of Massachusetts and, in so doing, broke two more freshman records. John McFarren added to his collection of records by swimming the 100 yd. free-style in 51.1 sec., as well as winning the 200 yd. free-style; and the 200 yd. free-style relay team of Jerry Lerman, Steve Toth, McFarren, and Winston Gardner set a mark of 1 min. 36.2 sec.

On Saturday the swimmers dropped a heartbreaking meet to Bowdoin by losing the final event, the 200 yd. free-style relay, by only one foot. Going into that event the score was tied, 44-44, but the team of Lerman, George Busby, Dave Benbassate, and McFarren was barely nosed out, resulting in a 51-44 loss for Tech. This one race was especially crucial, for it caused a losing 5-6 season for the frosh, whereas a win could have given them a 6-5 record. In the meet Gardner swam very well, winning both the 200 yd. medley and the 100 yd. butterfly.

With quite a few reserve grapplers getting chance to show what they can do, MIT's fresh-

Pistol team splits; Record still even

Last Saturday the Tech varsity pistol team evened its record to 3 and 3. In a triangular match MIT beat U. of Mass. 2096 to 2068 but lost to the U.S. Coast Guard Academy 2096 to 2133. This was the team's high score of the year and was lead by John Reykjalinn '67 with 541, and Bob Vogler '65 with a 538.

With matches to go against both Ohio State and Harvard, Tech is looking forward to finishing its season with a winning record.

man wrestling squad defeated Tabor Academy last Wednesday, 16-13. Wrestling very well were John Reynolds (137 lb.) and Don Pryor (147 lb.) both of whom outpointed their opponents. Brad Sermon (130 lb.) and Tom Chen (157 lb.) who also haven't seen too much action this year, lost decisions. Among the more experienced Techmen who wrestled, Tom Lang in the 123 lb. class pinned his man, Steve Reimers (177 lb.) won by decision, Geoff Smith (167 lb.) wrestled to a draw, and heavyweight Armen Varteressian was pinned.

Last weekend the New Englands meet was held, and two freshman Beavers fared very well. Norm Hawkins took the 147 lb. championship and John Fishback was runner-up in the 157 lb. class. Steve Bishko, who also figured to do well, was hurt during a match and could not finish.

Squash

The freshman squash team is now riding on a two-game winning streak after easily defeating both Portsmouth Priory and Lawrence Academy last week. In the meet with Portsmouth number one player Cy Tantivit got Tech off to a good start by beating his opponent three games to two. Peter Hurley followed with a 3-1 win. Terry Hamilton-Smith was the only Techman to lose, dropping a very close 3-2 match. Bob Melanson and Jeff Tranen made it a 4-1 MIT victory, each winning three straight games.

Tech's third victory of the year was their first clean sweep as all five Beavers not only won their matches but did not drop a single game in the process. Tantivit, Hurley, Melanson, Hamilton-Smith, and Dave Ilfeld each took 3-0 matches. The frosh will try to end their season on a high note with a meet against Thayer Academy this afternoon.

Hockey

The frosh skaters closed out their season with a 5-0 loss to Thayer. Thus, the undermanned team salvaged only three wins in their eleven game schedule. A sloppy second period was responsible for the defeat, as Tech found themselves already trailing at the beginning of the third period, during which they played excellent but scoreless hockey. Goalie Carl Bryant came up with a total of 54 saves, his high for the season, which saw him stop 450 attempts, a phenomenal average of 41 per game. Mike Harris led Tech scorers with nine goals for the year.

Rifle record 7-0 after Harvard win

By Karl Frederick

Tech gunners downed Harvard last Saturday afternoon, 1273-1191, to bring the team's GBCRL record to 7-0. St. Michaels College of Vermont forfeited the match which had been scheduled for the weekend. Only a final match against Northeastern stands between the Techmen and a clean sweep for the GBCRL title.

Top five shooters for the Techmen in the Harvard match were Dave Hamada '65, 266; Tom Hutzelman '66, 256; Karl Frederick '65, 255; Steve Walther '66, 250; and Phil Rosenkranz '67, 246.

On Deck

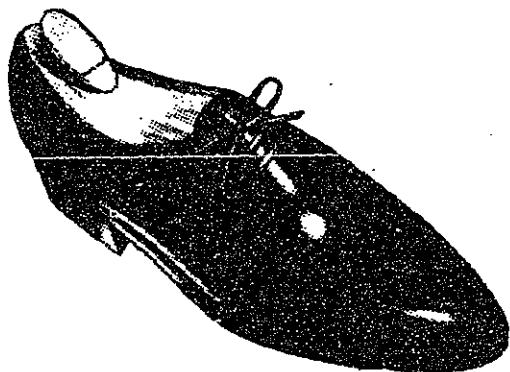
Friday, March 12

Rifle (V)—Harvard, home, 5:00 pm
Swimming (V)—New Englands, home (through Saturday)
Swimming (F)—New Englands, home (through Saturday)
Fencing (V)—Intercollegiate Fencing Association, away (through Saturday)

Saturday, March 13

Rifle (V)—Bowdoin, home, 5:00 pm

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T-Club Banquet Tuesday: Kiphuth featured speaker

Bob Kiphuth, four time Men's Olympic swimming coach, will be the principal speaker at the seventh annual T-Club Banquet to be held next Tuesday, March 16, at 7:00 at the Faculty Club. Kiphuth was formerly swim coach at Yale University where his teams compiled an unbelievable 520-12 record in the forty years he was there.

Two years ago, in March of 1963, he was awarded the Medal of Freedom by President Johnson on the recommendation of the late President Kennedy. Bob Kiphuth Kiphuth has been a continuing spokesman for physical fitness and is presently involved in the arbitration of the AAU-NCAA dispute.

The other highlight of the banquet will be the awarding of the straight-T to those exceptional athletes who have achieved national or recognition for themselves and their respective teams. The straight-T is the highest award given by the Institute to its athletes. Among last year's winners were Sumner Brown '66, outstanding long distance runner, and Bill Eagleson '64 holder of the varsity basketball career scoring record.



Villanova IC4A titleist; Purves 4th in mile-walk

Villanova came from behind to edge Maryland 24-21½ and take their fourth straight victory in the IC4A track and field championships held in New York last weekend.

Seven members of MIT's indoor track team participated in the meet, but the Techmen could not produce a high team score with 59 teams competing. However, some of the individuals put it their best performances of the season.

Bill Purves '66, the only Techman to place, finished fourth in the 1 mile walk. Sumner Brown '66 ran the 1 mile in 4:18, the best time he has ever hit indoors.

Larry Schwoeri '66, and Bob Dunlap '67 ran two races each. Schwoeri ran a good 600 yd. run in 1:14.8, while Dunlap ran in the 60 yd. dash. Both Schwoeri and Dunlap ran legs in the mile relay along with Terry Dorschner '65, and Joel Rogers '65. The relay team did not pass the trials, but their time of 3:26.8 was good.

Al Tervalon '65, the other Tech runner, passed the preliminaries in the 60 yd. hurdles.

Heavies lose six men

Crews look to victorious season

By Mark Wallace

Heavyweight crew, coached by Jack H. Frailey, looks forward to a successful season of competition this spring. Although six of the nine men in last year's varsity boat, which finished fifth in the Eastern Sprint Championships and the IRA Regatta, have since graduated, the team will be strengthened by the return of sixteen of the eighteen who manned last year's JV and 3rd heavyweight boats.

The heavyweight captain for the 1965 season is John R. Schilling, '65; the lightweight captain is John P. Proctor, Jr., '65, and the lightweights are coached by Gerritt Cwart. Last year they finished second at the Eastern Sprints.

Practice restricted

The crews rowed on the Charles River on Saturdays and weekday evenings this fall, but were restricted to indoor running and calisthenics during the Winter. Unfortunately, MIT does not possess an indoor rowing tank of the type used by Cornell, Harvard, Navy, and others, which permits oarsmen to engage in actual rowing practice during the Winter.

Heavyweight crew opens its season on April 10th against Boston University; rows Columbia on the 17th, Yale on the 24th, and Harvard and Princeton in a triangular meet on May 1st. These

will be the awarding of the straight-T to those exceptional athletes who have achieved national or recognition for themselves and their respective teams. The straight-T is the highest award given by the Institute to its athletes. Among last year's winners were Sumner Brown '66, outstanding long distance runner, and Bill Eagleson '64 holder of the varsity basketball career scoring record.

Improvement seen

Baseball team begins spring training

By John Schwarz

With their first game just three weeks away, the MIT varsity nine is well-underway in a spring training program that seems destined to produce a fairly successful season. Trying to bounce back after a dismal 2-15 season last spring, the squad is teeming with fresh eager talent from last year's freshman team.

Alusik, Dunford gone

Gone from last year's team are captain and firstbaseman Don Alusik, third baseman Don Dunford, and catcher Whitey Hinrichs. Although they will be missed, able replacements are at hand in Jeff Altman '67 at first, Mike Ryba '67 at third, and either Dave Vahey '66 or Ben Gikis '66 behind the plate.

Tom Bailey '66 will be back at his shortstop position, and the infield will be rounded out by sophomore Ron Kadomiya at second base. On the mound coach Jack Barry has Jack Mazola '66, Rick Gander '65, and last year's freshman standout Rick Pappenhausen '67.

Golf rally Monday

Films of the 1964 Masters Tournament will be the feature of the varsity and freshman Golf rally which will be held this Monday, March 15 at 5:30 p.m. in the Conference Room at the Du Pont Athletic Center. The rally will be for all those interested in either playing or managing during the spring season which is scheduled to begin just after vacation.

Swim championships here

By Neal Gilman

The MIT mermen, setting three varsity records in their last home meet of the season, face the coming NEISA championships this Friday. In the home meet on Tuesday, March 2, MIT defeated UMass, 56-39, and later travelled to Bowdoin where they were defeated 43-52. With this extremely close loss to Bowdoin, the team's final won-lost record is 6-7. The UMass meet was the mermen's most inspired showing of the season.

Three varsity records set

Showing true competitive spirit, the team's first place winners all beat their own best individual times, two of them setting three new varsity records. Mike Crane '67 was the first to alter the record book. In the 50-yd. free he swam to a 22.7 sec. record time. Close on Crane's heels, Bill Brody '65 lowered his own varsity record in the 200-yd. individual medley, swimming it in 2:14.7. This time beat his previous record by slightly less than 3 seconds.

Crane sets second mark

Crane, a few events later, again proved his amazing speed. He set a new 100-yd. free record in 51.7 seconds, smashing Sandy Blanchard's record by 1.1 seconds. Frand Mechura '65 in his effort to set a new record in the 200-yd. backstroke, missed by a second with a time of 2:16.6. This, however, beat his own previous best by a good 2.3 seconds. Captain Cash Peacock '65, made a bold bid for a record in the 200-yd. breast stroke. He swam the race in an extremely fast time of 2:29.2, missing a varsity record by .1 second and beating his best by about a second.

Bowdoin scores close win

In an anti-climactic meet against Bowdoin last Saturday, the swimmers again showed some of the same competitive spirit. After losing an extremely close race in the 400-yd. medley relay, MIT quickly won the next 3 events. Dick St. Peters '65, Crane, and Brody won the 200-yd. free, 50 free and 200-yd. individual medley, in times 1:59.8, 23.2, 2:21.6, respectively. MIT then lost the next three, only to win three again. Mechura, St. Peters, and Peacock won the 200-yd. back, 500 free and 200 breast with times 2:20.3, 5:44.2 and 2:32.2, as Eric Jensen '65 swam the 200 back and 500 free, back to back, taking a third and second.

The NEISA championships, the event for which the team has trained all season, will begin Thursday evening where the 1650-yd. freestyle will be held at 7:30. Admission will be free. Friday morning, 10:00, the diving trials are scheduled with the swimming trials that afternoon at 2:00. Admission for both of these will be \$1.00. More swimming trials will be that evening at 7:30 with admission again being \$1.00. The finals will take place on Saturday afternoon. Admission for these will be \$1.50. It is possible to buy tickets for the entire New England races at \$2.50 each. Tickets will be sold in Building 10 all week.

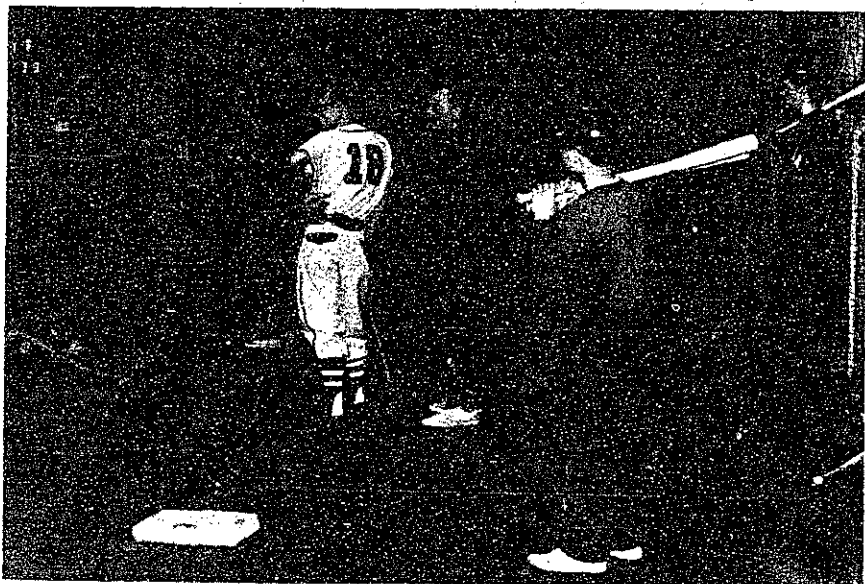


Photo by William Park

Baseball coach Jack Barry (25) looks over his infielders during pre-season practice at the Rockwell cage. The baseball team will move outside as soon as possible in preparation for their spring vacation road trip.

Wyttenbach in center

Mazola and Pappenhausen will double in the outfield because of their fine hitting, and Roy Wyttenbach '65 will be back in center-field. Eric Jensen '67 also seems slated to see considerable action in the outfield.

The squad looked impressive winning several games in fall practice last September, and will start the season appropriately enough in Washington, on their annual spring trip south, taking on Howard, and Catholic U. there, followed by Pratt and Stevens in New York. The first home game at Briggs Field is Tuesday, April 20, against Tufts.

The Schedule

Howard	away	March 30
Catholic U.	away	March 31
Pratt	away	April 1
Stevens	away	April 2
Boston College	away	April 6
Wesleyan	away	April 10
Bates	away	April 16
W.P.I. (2)	away	April 17
Tufts	home	April 20
Middlebury	home	April 24
Lowell Tech	home	April 28
Bowdoin	away	April 30
Harvard	away	May 5
Coast Guard (2)	away	May 8
Boston U.	home	May 13
Trinity	away	May 18
Northeastern	home	May 18
Brandeis	away	May 20

Springfield wrestles to first in New England; Bob Wells takes second in 157 pound class

By Dave Chanoux

Springfield's powerful wrestling team topped the field of 18 entries in the nineteenth annual New England Intercollegiate Wrestling Association championships held last Friday and Saturday, March 5 and 6, at the University of Massachusetts.

Bob Wells '65 was the top MIT entry with a second place finish in the 157-pound class. In the single elimination tournament, Wells opened by defeating John Wilson of Worcester. He advanced to the finals by outwrestling John Mirson of Amherst, only to be pinned by Springfield's Dale Winter.

In the 147-pound class, Whitey Whiteman '66 beat Ed Conture of Emerson and Dave Kollander of Williams to advance to the quarter-finals. He lost his next match to Pete Reed of Wesleyan to drop into the consolation bracket. Here Whiteman beat Jim Clow of Coast

Guard and lost to Norm Labutti of URI to finish a fine fourth.

The only other big winner for MIT was Brook Landis '67. He had two wins in the 167-pound class: over Bob Jones of Williams and Lee Havis of UConn. In the semi-final match, he lost to Springfield's Frank Perraino.

In the heavyweight division Dick Nygren '67 opened with a win over Malmeld of Brandeis. That's as far as he could go, as he lost to Milt Morin of Massachusetts in his next match. Silverman, Hultgren, Connelly, Mogenson, and Wulf also wrestled for MIT but were eliminated in their opening matches.



Photo by Leonard Feshkens

Varsity lightweight crew is shown during one of the recent practice sessions on the Charles river. The lights open their competition against Dartmouth and Yale on April 17 and the heavies meet Boston University April 10.

MIT at championships
On May 15th, MIT attends the Eastern Sprints, held over 2,000 meters as the Concord Cup is, and on May 19th, travels to Syracuse

University for the 4 mile IRA Regatta.

The lightweights row Dartmouth and Yale on April 17th, defend the Biglin Cup against Dartmouth and Harvard on the 24th, both at 1 and 5/16 miles (=2310 yds), take on Cornell and Columbia on May 1st, Navy and Pennsylvania on May 8th, and close their season at the Eastern Sprints on May 15th.

How They Did

Swimming

MIT (V) 56, UMass 39
Bowdoin 52, MIT (V) 43
MIT (F) 61, UMass 34
Bowdoin 51, MIT (V) 44

Squash

MIT (V) placed 9th out of 18 in NCAA championships
MIT (F) 5, Thayer 0
Lawrence Academy 3, MIT (F) 2
MIT (F) 4, Portsmouth Priory 1

Hockey

Thayer 5, MIT (F) 0

Wrestling

MIT (V) finished 7th in New England
MIT (F) 16, Tabor Academy 13
MIT (F) finished 4th in New England

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